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Indrivo projects portfolio

INCLUDING IT & WEBSITES DEVELOPMENT

Tel: +37379733016 (MD)

Web: www.indrivo.com

@indrivo on Social media

Mail: sales@indrivo.com

office@indrivo.com

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Experience in web application development

Below you can find the list of projects in which the members of the Indrivo team were involved, along with a brief description of the projects, activities and technologies applied. If you need further recommendations, please contact us.

In this respect, to offer a full image of the previous projects of the Bidder, we divided the refferences regarding the projects developed by us as follows:

1.1 Experience in Web application development using .NET technologies

1.1.1 Development of the Information System for determination of disability and work capacity

Information System for determination of disability and work capacity	
Beneficiary: National Council for the Determination of Disability and Work Capacity Sponsored by: P.I. "e-Governance Agency" **Implementation period:** November 2020 – November 2021	**Contacts:** Emilia Berejnaia, Head of the information technologies and monitoring service of NCDDWC Phone: +373 79 147 766 E-mail: admin@cnddcm.msmps.gov.md Vasile Postolachi, Project manager of eGov Phone: +373 22 820 023 E-mail: vasile.postolachi@egov.md

Project description:

The requirements of the National Council for Determination of Disability and Work Capacity were to implement a new information system to replace the current information system used by NCDDWC. This system is intended to support the activities in the field of determining the disability and work capacity of people with disabilities in Moldova.

The Systems should provide support for the following processes:

- Preparation of documents by the applicant;
- Submission of the application;
- Application evaluation;
- Appeal.

Solutions:

NCDDWC wanted to keep the platform as simple and user friendly as possible, which was challenging considering the different user roles and their respective access and editing

rights. For this project, Indrivo created a clean structure and layout, as users accessing the portal have varying levels of expertise and knowledge. The platform is robust enough to deliver a wide range of information, but simple to navigate for the most novice users. The login area and other advanced functionalities were added as required by the NCDDWC. The platform is multilingual and optimized in order to meet the highest standards regarding security, compatibility, and accessibility.

We integrated the system with the following Governmental services and third party systems:

- MPass – to authenticate users;
- MSign – to sign and verify electronic signatures;
- MLog – to journal business sensitive events;
- MNotify – to be used for notifications;
- MConnect – to exchange data with external information systems;
- MPower – to submit the application forms on behalf of the beneficiary.

Results and benefits:

Implementation of the new information system led to a reduction in time, effort and resources spent by users accessing NCDDWC services. The system allows users to schedule appointments, keep track of applicants through an electronic register. The system allows third parties to submit application forms on behalf of the beneficiary, based on a valid electronic authorization in MPower. Based on the application form and supporting documents, the system automatically calculates the degree of disability and determines the disability and work capacity. The system allows the applicant to see the status of the certificates/petitions/appeals, it supports printing, signing, scanning, uploading of the documents and reports in various formats (Excel, PDF, HTML).

Main technologies: ASP.NET 5, ASP.NET Identity, Entity Framework, PostgreSQL, React.js, MediatR, Elastic Search.

1.1.2 Design, development, Configuration, Deployment of the Semantic Catalog Information System

Semantic Catalog - the only IT inventory of semantic assets in Moldova	
Beneficiary: P.I. "e-Governance Agency" Sponsored by: International Development Association (IDA) **Implementation period:** June 2020 – June 2021	**Contacts:** Sergiu Bedros, Project Manager Phone: +373 79 009 047 E-mail: sergiu.bedros@egov.md

Project description:

The Government of Moldova, via the E-Governance Agency (EGA), is responsible for the development and implementation of the Government E-Transformation Agenda, which intends to ensure the country's sustainable development through efficient use of ICT.

The purpose of the Information System, called Semantic Catalog, is to automate the inventory processes of semantic assets and to ensure access to semantic assets using IT mechanisms and boost the continuous development and operation of the MConnect interoperability platform. The Semantic Catalog will become the key IT resource that will

provide updated data on the semantic assets available on the territory of the Republic of Moldova.

Solutions:

Indrivo started this effort by designing a roadmap to guide the scale of the overall effort. Our team led the development of an advanced semantic data catalog prototype, using a knowledge graph to provide key contextual and descriptive information that helps map the relationships between the authorities IT systems data sources, including data collection, metadata repositories and publicly available information. Indrivo has developed an intuitive front-end user interface for the data catalogue that allows users to easily explore and access data.

Relying on our vast experience and following agile software development principles, we were able to rapidly develop the catalog using full-stack development methodologies.
Results and benefits:

The Semantic Catalog system is now fully in production, it helps to organize, relate, and standardize metadata used by authorities IT systems. The catalog also makes it easy to find and connect relevant data with business users to view key information at a glance.

Public users can now explore the Semantic Catalog interface, search for semantic assets, view and download details of the semantic assets, access public reports and performance indicators etc.

- search semantic assets;
- list categories;
- list semantic asset owners;
- view semantic asset details;
- submit a request to be connected to Mconnect;
- download technical specifications for a semantic asset (CSV, XSD, JSON schema, WSDL, etc.);
- reference semantic asset by using user-friendly URL;
- view statistics about semantic assets;
- Integration with the Electronic Governance Center services: MNotify, MLog, MPass, MSign, MConnect;

Main technologies: ASP.NET Core 3, ASP.NET Identity, Entity Framework Core, PostgreSQL, React.js, MediatR, Elastic Search, C#, React JS.

1.1.3 Development of a job-placement and recruitment web-platform for National Employment Agency

An online job portal where employers can post their vacancies and job seekers their resumes	
Beneficiary: National Employment Agency Sponsored by: United Nations Development Programme (UNDP) **Implementation period:** March 2020 – December 2021	**Contacts:** Zinaida Adam, Project manager, UNDP Moldova Phone: +373 22 820 840 Natalia Suschevici, Project Finance Associate E-mail: natalia.suschevici@undp.org

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Project description:

The National Agency for Employment (ANOFM) is the administrative authority subordinated to the Ministry of Health, Labor and Social Protection from Moldova. ANOFM's mission is to increase employment opportunities for job seekers and support employers in identifying skilled labor.

For this customer, Indrivo had the mission to set up a job portal platform where candidates look for jobs and employers post their jobs. The purpose of the development was primarily the unification of two employment portals belonging to our client, in a unique platform, by connecting employers and job seekers on a single platform. Merging these two platforms was the key challenge to be faced by our team. The platform had to be focused on usability, maximum commitment and top customization.

The major wished **features** / objectives of the system were:

- Development of a modern and performant IT system, serving as a national job board for local companies;
- Development of a modern User Interface, facilitating the job posting for companies and submission of candidate's information;
- Provision of an easy to use automation interface (file import, synchronization);
- Provision of statistical data for companies regarding vacancies in different sectors/regions of the country;
- Provision of a catalogue-based list of vacancies for facilitating career fairs, both online and offline.

Solutions:

We started this project with one main goal in mind: to design a common platform that is effective for local jobs and serve both web and mobile users. The portal was developed to serve three primary users: portal administrators, job seekers, and companies. This meant an extremely complex back-end structure and an easy-to-use design. The portal was built using ASP .NET, due to its ease of use, scalability, flexibility and enhanced security, we have deployed many new and advanced features.

Results and benefits:

Our client's ideas have become a reality through the efforts of our technical experts, qualified developers and testers. The system is time-saving, cost-effective, safe and easy to use, it provides best-class of employment services to job seekers and recruiters. This portal allows both candidates and employers to easily search for a suitable match for each other.

- Fast response time by automating the job application process;
- Better user experience with minimal navigation structure;
- Simple and advanced search facilities;
- Complete admin control and Content Management System;
- Mobile-ready solution with a responsive layout;
- Job alerts, SMS / email notifications;
- Integrated government services: MSign, MPass.

Main technologies: ASP .NET, PostgreSQL, Redis Cache, Prometheus, Grafana, Logstash, Elastic Search, ViewJs, CSS

1.1.4 Improve and adapt the existing web-portal "My Pages/Mina Sidor" and "KAF – Online Database"

Web-portal "My Pages/Mina Sidor" and "KAF – Online Database"	
Beneficiary: Euro Finans AB / Prioritet Finans AB **Implementation period:** March 2020 – July 2020	**Contacts:** Zoran Mitrovic, Sr. Product Owner / Sr. Project Manager Phone: +46 72 383 06 79 E-mail: zoran@eurofinans.se

Project description:

The aim of this project is to improve and adapt the existing web-portal "My Pages/Mina Sidor" and it's database "KAF – Online Database". Indrivo SRL has implemented a technology-based solution for exporting customer specific information available in a web view page and the backend system:

- Developed Account Plan Settings for "My Pages/Mina Sidor";
- We adapted the views and created an export functionality to XLSx or CSV formats;
- Adapting and Exporting accounting records to SIE5(XML), SIE4I(SI), Excel(XLS), Coma-separated(CSV) formatted file;
- Map Transaction Types from EFPF System KAF to Customer defined Account Plan in My Pages In accordance to BAS 2020Standard;
- Adapt/Modify/Customize the UI/UX for added functionality;
- We have adapted UI/UX for Mobile Devices.

Main technologies: ASP .NET, MVC, C#, JQuery, React, Razor View Engine, SQL Server

1.1.5 Development a Cryptocurrency App with a fully-customizable interface and real-time data update

Cryptocurrency App with a fully-customizable interface and real-time data update	
Beneficiary: Colciar and Buda Limited **Implementation period:** February 2020 – September 2020	**Contacts:** Madalin Mije, Project Manager Phone: +40 785 720 625 E-mail: madalin@revolutionapps.app

Project description:

Our customer was looking for a reliable software development provider that would build a cryptocurrency web and mobile application for them. Their goal was to help millions of people safely manage their multi-crypto wallets and generate an additional source of regular side income. Having this goal in mind, they came to us in order to create a secure application that can track the rates of all popular cryptocurrencies, be it Bitcoin, Ethereum, Tether, Litecoin and some other digital currencies. The users should have the possibility to buy, sell, trade, exchange and manage digital currency and fiat money manual or set up

automatic transactions (with the help of bots) securely and efficiently by keeping an eye on the latest prices anytime, anywhere.

Solutions:

Our team designed, developed and delivered the application that integrates all of the banking and cryptocurrency platforms required for the efficient execution of transactions. .Net Core was chosen as the main language for the back-end development, for the web front-end, we used Javascript, while Xamarin served as the language for mobile development. The system was integrated with an admin tool for our customer and with a group of Cryptocurrencies Exchanges through the use of their APIs. Our QA engineers wrote several scripts to automate the testing process that allowed us to reach the best efficiency and correct bugs before the release. The key feature of this application was the creation of an automatic bot that aims to help users buy and sell cryptocurrencies at the right time, to generate as much profit as possible for the user.

Basic functionalities:

- Buy/Sell cryptocurrencies;
- Easy and fast registration;
- Personal trading dashboard;
- Referral program - earn money by recommending the app;
- Mobile app: Android and iOS.

Results and benefits:

The app ensures a high level of security and instant transactions. Users can choose one of the currency or invest in different cryptocurrencies, having the possibility to control all financial processes in one place.

Main technologies: ASP .NET, MVC, C#, JQuery, React, Razor View Engine, SQL Server

1.1.6 Development of SAISE IT Subsystem "Register of Electoral Officials" (EDMITE)

Development of the "Register of Electoral Officials"	
Beneficiary: Central Electoral Commission of the Republic of Moldova Sponsored by: United Nations Development Programme (UNDP) **Implementation period:** December 2019 – June 2020	**Contacts:** Dorin Toma Senior Project Office Phone: +373 69 950 677 E-mail: dorin.toma@undp.org Alexandru Balmoș Head of the Information Technologies and Management of Electoral Lists Phone: +373 68 711 146 E-mail: alexandru.balmos@cec.md 119 Vasile Alecsandri Street, Chișinău, MD 2012, Republic of Moldova
Project description:	

The Register of Electoral Officials (REO) main purpose is to automate the electoral infrastructure preparation processes by having computerized the record keeping and data management on electoral officials engaged in election processes (to be selected for appointment to district electoral councils and precinct electoral bureaus of polling stations, including those located abroad).

The REO implementation shall enable the CEC to keep active electoral officials capable to perform electoral functions of due quality. Its development and implementation shall enable the CEC to attain the following objectives:

- Strengthening a comprehensive stock with all electoral officials ;
- Keeping records on electoral officials ;
- Keeping records on engaging the electoral officials in election processes;
- Keeping records on electoral officials ;
- Updating automatically the data related to electoral officials;
- Deploying quickly the electoral infrastructure under new elections;
- Generating analytical and performance reports for decision-making.

Results & Benefits:

Its development and implementation shall enable the CEC to attain the following objectives:

- strengthening an up-to-date collection of data on electoral officials;
- automating the process of data collection on electoral officials;
- automating the processes of identification and allocation of electoral officials during elections;
- providing tools to analyze the data on electoral officials for the purpose of keeping records on their continuous education and planning instructive activities;
- keeping records on training certificates issued to electoral officials;
- developing an efficient co-operation mechanism amongst the actors engaged in recording or managing actions related to electoral officials;
- ensuring data access control, as well as security and maximum confidentiality of data collections and Users;
- providing information for analysis, forecasting and relevant research activities;
- Integratin of the government services: MPass, MSign, MLog, MConnect.

Main technologies: ASP .NET, MVC, C#, JQuery, Razor View Engine, SQL Server

1.1.7 Railtechniek CRM

Development CRM platform for Railtechniek	
Beneficiary: Railtechniek Van Herwijnen BV **Implementation period:** January 2019 - March 2019 **Link:** http://www.railtechniek.eu	**Contact:** Gerard den Hartog, General Manager E-mail: gerard.den.hartog@railtechniek.nl

Project description:

Railtechniek CRM (customer relationship management) is a tool that helps managing all your company's relationships and interactions with customers and potential customers. The main objective of the CRM tool was to gives everyone — sales, customer service, business

development, marketing — a better way to identify sales opportunities, record service issues, and manage marketing campaigns, all in one central location.

Developed features:

- Authorization and account management module - that offers an easy and accesible way to sign in, create new account, update existing one and reset password for all CRM users added in system by the administrator;
- Roles and permissisons module - that offers posibility to manage what CRM users see, add, modify or delete;
- Account and profile management module - that helps keep up to date account for CRM users and check their existing tasks and deals;
- Notification module - that cointains alerts, reminders and notifications on new, current and overdue deals and tasks etc.;
- Activity management - that offers a simple way to add tasks, comments and checklists related to new and ongoing deals like meetings, calls, emails, documentation etc.;
- Files module - posibility to upload and delete files related to a deal;
- Audit component - posibility to track all changes to a deal, task, contact or organization;
- Search and filter module - helps to find and display only the relavant deals, tasks, organizations or contacts based on selected filters or keywords;
- Deals management module - that offers posibility to add new deals, update existing ones, change their status, add or remove information related to deals, add or remove files, delete current or duplicate deals etc.;
- Clients management module - that offers posibility to add, update or delete clients and data associated to them, like organization, deals etc.;
- Organizations management module - that offers posibility to add, edit and delete public or private companies, institutions, agencies and all their related data;
- Pipeline management module - offers posibility to add more pipelines for deals, configure and edit the number of steps and naming scheme etc.
- Settings management module - that helps in managing proposed services, pipeline settings, currency, countries, language, keywords, won/lost causes, tasks types etc.;
- Reports module - possibility to generate reports based on various variables like period, service, client, organization, pipeline etc.;
- Dashboard module - that displays all relevant data to what is current happening in the CRM tool with deals (new/overdue, won/lost etc.), tasks (ongoing/do it now etc.), organizations (new/updated etc.), contacts (new/updated etc.) etc.

Main technologies: ASP.NET, MVC, C#, JQuery, SQL Server

1.1.8 Bizon360 CRM

Development CRM platform	
Beneficiary: Soft Technica SRL **Implementation period:** July 2018 - November 2019 **Link:** https://crm.indrivo.com/	**Contact:** Lupusor Eugeniu General Director Phone: +373 79 733 016 E-mail: sales@indrivo.com

Project description:

BIZON360 CRM (customer relationship) is a part of a suite of tools (SaaS) that helps managing all your company's relationships and interactions with existing and potential customers. The main objective of the BIZON360 CRM tool — as part of a suite of tools

(SaaS) — was to gives everyone a easier way to identify sales opportunities, record service issues, and track a lead from potential lead to an ongoing project and a deliverd solution, all in one platform.

Developed features:

- Authorization and module — an easy and accesible way to sign in or create new account based on profiles;
- Roles and permissisons module — helps manage what BIZON360 CRM users see, add, modify or delete;
- Account and profile module — keeps up to date account information for all BIZON360 CRM users and check their existing activity, leads and perfromance;
- Pipeline module — offers posibility to add more pipelines for leads, configure and edit the number of steps and naming scheme etc.;
- Leads module — offers posibility to add new leads, update existing ones, update their status, add or remove information related to leads, add or remove files, delete current or duplicate leads etc.;
- Files module — posibility to upload and delete files related to a lead on local cloud storage or any other cloud storage location;
- Search and filter module — helps find and display only the relevant leads, activities, companies or contacts based on selected filters or keywords;
- Clients module — offers posibility to add, update or delete clients and data associated to them, like company, leads etc.;
- Companies module — offers posibility to add, edit and delete companies and all their related data;
- Activity — offers a simple way to add activities, comments and checklists related to new and ongoing leads like meetings, calls, emails, documentation etc.;
- Audit component — posibility to track all updates to a lead, activity, contact or company;
- Notification module — cointains alerts, reminders and notifications on new, current and overdue leads and activities etc.;
- Settings module — that helps in managing proposed service types, pipeline settings, currency, countries, languages, keywords, won/go/nogo/lost causes, activity types, etc.;
- Reports module — possibility to generate reports based on various variables like period, service, contact, company, pipeline etc.;
- Dashboard module — that displays all relevant data to what is current happening in the BIZON360 CRM tool with leads (new/overdue, won/lost etc.), activity (ongoing/do it now etc.), companies (new/updated etc.), contacts(new/updated etc.) etc.

Main technologies: ASP .NET, MVC, C#, JQuery, SQL Server

1.1.9 Development and implementation of State Automated Information System "Vignette"

State Automated Information System "Vignette"	
Beneficiary: The State Road Administration of the Republic of Moldova **Implementation period:** November 2018 - April 2019	**Contacts:** Cangea Petru Head of the Vignette department Phone: +373 69 417 777 E-mail: cangea@asd.md

Link: http://vinieta.gov.md:8080/#step-1	Rusu Eugeniu Vignette service specialist Phone: +373 79 180 241 E-mail: rusu@asd.md

Project description:

The main goal of SAIS Vignette is to ensure the Ministry of Economy and Infrastructure of the Republic of Moldova with an IT solution for collecting, storing and data processing regarding collection of fee for using roads in Moldova by non-registered vehicles in Moldova. The system also provide various reports and information for responsible authorities witch allow exercising the verification and control atributions regarding fee payments.

Basic functionalities:

- Creating folders of tax objects automatically recieved by interacting with external information systems;
- Functionality that provides access to electronic file of the taxation object (visualisation, print, export), also allow the manual synchronization of the relevant data regarding the taxation object from external information systems and consolidate the obtained results in the record sheet;
- Import data via standard files, including configurable templates for import that allow internal users to configure SAIS Vignette without developers intervention;
- Dashboard development tooled with an alert system of internal users that allow operative review and access to the business events which they interacted with and assigned tasks (system notifications, workflow events, etc.);
- Generate pre-defined and ad hoc reports useful for analyzing processes, records, and institutions involved in the Vignette fee collection process, providing predictive and decision-making data;
- Folder Search functionality is intended to define criteria for searching information in the folder content, displaying search results and defining additional search criteria in the list of displayed results;
- Creating the electronic form for vignette payment without authentication in the system. At first use the system offered the possibility of creating a user account and saving the data for the subsequent use of the service and also for the subsequent consultation of the file on the object of the taxation and receipt of notifications;
- Functionality that provides the internal user assigned as operator with the electronic form necessary to correct the errors of the external users regarding vignette fee payment and remedial request;
- Feature that allows approval or rejection of electronic forms;
- Functionality that provide to internal user information about the existence and validity of vignettes, by registering all system authentication and authorization events in the system logs;
- Profile management fuctionality for assigning the roles and permitions, including managerial level, external actors, external IT systems, etc.
- Metadata system - functionalities for nomenclatures administration, classifiers and configurations;
- Data synchronization functionality;
- SAIS Vignette functionality that notify Authorized Users of the business events that affect them (Internal Messaging or Email);
- Events logging generated by the functional components of SIAS Vinieta;
- Integration of the government services: MConnect, MPass, MSign, MLog.

Main technologies: ASP.NET MVC 5 , nHibernate, MSSQL 2017, jqGrid, Bootstrap, ASP.NET Core 2 API

1.1.10 Application for administration of Information Security Management processes, Document Management system (BPM, DMS) & E-commerce"

Application for administration of Information Security Management processes, Document Management system (BPM, DMS) & E-commerce

Beneficiary: Expert Company Oil SRL **Implementation period:** February 2019 – May 2019	**Contacts:** Ionela-Laurentia Oancea Phone: +40 737 035 506 E-mail: office.expertcompany@gmail.com Headquarters: 3A/ 33A Soseaua Colentina Street, Sc. A, Ap.24, Bucharest, Romania Location: 36/335, CFR Street, sc. B, et. 1, ap. 25, Giurgiu, Romania

Project description:

The project aims to develop a Customer Information Management System (SMSI) documentation and process management application, according to the ISO 27001 standard. The application allows the beneficiary to customize its parameters in line with subsequent updates of the standard without the subsequent involvement of the developer.

The main functionalities of DMS:

- Online document sharing of different formats between companies and their real-time editing by multiple users, as well as multiples import / export of documents;
- The application allows configuration of workflows and the definition of new pages by users, along with options for approving documents and actions;
- Development of customizable indicators matrix;
- The application includes a module for allocating tasks to certain users and monitoring their status that can be defined by Admin;
- The user recieve notifications on theirs profiles regarding events they are involved / subscribed to, including notifications by email;
- Development of an internal calendar for organizing events and tasks, as well as synchronizing it with external calendars (MS Exchange, Outlook and Google Calendar);
- The application logs events generated by its functional components, both at the access level and at the field level (modification, deletion, creation);
- The application allows users to communicate via an internal chat, as well as secures the communication of users (using SSL, the latest version);
- Integration with MS Sharepoint and file servers;
- The application contains the option of approving and publishing the document received for approval. It also allow the withdrawing of the document, document versioning (publishing new version of documents) and log the changes;

- The application provides an interface dedicated to super-admin, as well as local administrators for role and permissions setting, as well as system parameterized fields, logins ip, password reset;
- The application allow the possibility to search for events and tasks based on extended, settable filters;
- Generating reports functionality, statistics and graphical representations of the generated reports indicators, as well as the print option.

The E-commerce platform is designed to improve the process of commercialization by integrating an online trading tool.

- The main features of the E-Commerce platform:
- Payment - integration of online payment system;
- Real time chat - Integration of real-time mode customer support;
- Purchase order - possibility to order services and customer management;
- Demo mode view of the services;
- Other features specific to e-commerce platforms (catalog reviewing and product filtering, etc.).

Main technologies: .Net Core 2.2, PostgreSQL, Bootstrap, Jquery, Jquery.DataTable, GrapeJs

1.1.11 Corrective, adaptive and preventive maintenance of SAIS RCA Data

SAIS RCA Data - corrective, adaptive and preventive maintenance	

Beneficiary: National Commission of the Financial Market
 	
Implementation period:
June 2018 - June 2019
	Contacts:
	
	Liuba BUGAI
	Principal specialist, Analysis and actuarial department
	Phone: +373 22 859 414
	       +373 69 237 124
	E-mail: liuba.bugai@cnpf.md
	
	Sergiu TERGUȚĂ
	Chief of Information Technology Department
	Phone: +373 22 859 585
	       +373 69 177 554
	E-mail: sergiu.terguta@cnpf.md

Project description:

The purpose of maintenance services for the SAIS RCA Data: assistance, maintenance and requests for changes is to ensure for the National Commission of the Financial Market (NCFM) the following objectives:

- The functionality provided by the system will be lined in time with the communicated needs of the NCFM;
- Incidents and problems occured during the exploitation of the website will be addressed and resolved in a timely manner, with minimal impact on NCFM's activity and image;

- Difficulties in using the web page will be handled correctly and in a timely manner, without affecting its operation.

Main technologies: DBMS - MSSQL, ORM - Entity Framework, GUI - Windows Forms, Web application frameworks - WCF, ASP.NET, MVC, Web technologies - Ajax, XML, HTML, JavaScript, jQuery, CSS, Ajax, XML, HTML, JavaScript, jQuery, CSS, Third party provider of .NET controls - DevExpress

1.1.12 Adjustment of the State Automated Information System "Elections"

Adjustment of the State Automated Information System "Elections"	
Beneficiary: Central Electoral Commission of the Republic of Moldova Sponsored by: United Nations Development Programme (UNDP) **Implementation period:** April 2018 – August 2018	**Contacts:** Dorin Toma Senior Project Office Phone: +373 69 950 677 E-mail: dorin.toma@undp.org Alexandru Balmoș Head of the Information Technologies and Management of Electoral Lists Phone: +373 68 711 146 E-mail: alexandru.balmos@cec.md 119 Vasile Alecsandri Street, Chișinău, MD 2012, Republic of Moldova

Project description:

As a result of the amendments to the electoral legislation of the Republic of Moldova through Law no. 153 of July 14, 2017 regarding the parliamentary elections, the electoral system is changed from party lists to elections on a mixed basis (both on the basis of party lists and on the basis of uninominal constituencies).

Under these conditions, the definition of a uninominal electoral constituency emerged, which necessitates the adjustment of the applications of the State Automated Information System "Elections" (SAISE). SAISE adjustments aim to re-engineer some applications within the State Automated Information System "Elections".

Within SAISE adjustment project were reingeneered the following applications:

- „SIASE Admin";
- „State Register of Voters";
- „Voting Day";
- SAISE Reporting Platform.

Tasks:

- Integration with the Electronic Governance Center services : MNotify, MLog, MPass, MSign;
- Implementation of Personal Data Protection mechanisms;
- Data Migration;
- Configuration and Adjustment of existing data base.

Main technologies: ASP .NET, MVC, C#, JQuery, Razor View Engine, SQL Server

1.1.13　Knowledge Management System

Knowledge Management System	
Beneficiary: Deloitte Tax SRL **Implementation period:** January 2019 - April 2019	**Contacts:** Vasile, Alexandru-Ionut E-mail: alvasile@deloittece.com

Project description:

The client turned to us to develop a web-based Knowledge Management System that provides private network to communicate and collaborate across departments, facilitates data-sharing, workflows management functionalities and provides support for work and knowledge sharing needed to develop integral business strategies. We had to develop the administration interface and the user interface, which should offer the possibilities to create, store, and search information organized as project-type objects. The customer should have the possibility to manage, use, edit and interact with the created database.

Solutions:

Our team provided the customer with the flexibility to have a knowledge management system that perfectly fits the client's specific business needs. In order to provide the best solutions, we recommended the C#, .NET Frameworks for the client's KMS which suited their requirement perfectly and enabled us to develop the product using the latest techniques. The KMS application is easy to integrate with existing systems and streamlines data management.

- A unified knowledge center;
- Fast and accurate information retrieval processes;
- Up-to-date real-time knowledge to all system users;
- Scalable platform - able to support a large number of users;
- Secure, robust, extensible database.

Results & Benefits:

The KMS, being accessible from anywhere, facilitates our client's business by helping them to accumulate scattered data, experience, resources and develop full business strategies speeding up their workflows.

- Connected organizational knowledge;
- Reusability of resources;
- Reduced loss of know-how;
- Increased innovation and productivity;
- Improved delivery to customers.

Main technologies: ASP.Net Core 2.2, Lucene, Hangfire, Bootstrap 4 (ui), PostgreSQL

1.1.14　Maintenance Services of the Case Management System (CMS), version 4.1.4

Maintenance Services of the Case Management System (CMS), version 4.1.4

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Beneficiary: The Ministry of Justice of the Republic of Moldova, the Agency for Courts Administration, the Superior Council of Magistracy and National Courts Sponsored by: United States Agency for International Development (USAID), Millennium DPI, Moldova Open Justice Project **Implementation period:** July 2017 – October 2018	**Contacts:** Cristina Malai E-mail: cmalai@openjustice.md Luciana Iabangi E-mail: liabangi@openjustice.md

Project description:

The information system aims to automate the internal work procedures within the courts on case flows management, data on court performance, budget and human resources planning, providing to the citizens an easy access to various electronic services of the court.

Tasks:

- To change the algorithm of allocation of court requests of legal actions (civil cases) and for civil, criminal and contravention cases;
- To change the algorithm of case allocation that will allow a distribution by degree of complexity and other indicators;
- To provide transfer of cases files between courts (courts, Courts of Appeal and Supreme Court of Justice) when a case file contains more than 500 participants.
- To provide a change that allows publishing of courts judgments and decisions, manually uploaded/saved within ICMS, in PDF format;
- To provide a change that will allow automation of random assignment of recusation/refusal applications in requests on legal actions (civil cases);
- To set up an alert system to notify the accountable judge;
- To provide a change that will allow sending the summons (Case/Summons) by e-mail to lawyers and other participants;
- To develop the "Execution" case menu that will allow to save information about execution process or its result, including information about voluntary payment of the fine by the debtor;
- To develop the "Appeals" menu;
- To develop the "Employees" menu within ICMS;
- To develop within ICMS the option of disabling judges that will allow to search files;
- To provide a change that will allow automatic filling in of the Web Report Card of the request and case, thus, the officers of Secretaries will not have to carry them manually;
- The Electronic Judicial Statistics Module of the ICMS (EJSM) will contain a statistical report on changes and cassation/cancellations of courts decisions at national level;
- To create within ICMS the functionality (of a web service) that will allow an authentication access (by electronic signatures) to authorized third parties, who are personal data operators, to the database of completed decisions (non-personalized), excepting those which were examined in a closed/confidential session.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, ASP.NET, MVC, C#, AJAX, RAZOR View Engine, SQL Server.

1.1.15   Booker Jim – integrated online booking system

Booker Jim – integrated online booking system	
Beneficiary: "Beraria H SRL" **Implementation period:** March 2016 – present	**Contacts:** Adriana Mihaila director

Project description:

The project is a part of the business vertical Maximus and deals with business automation. In our case, the client "Beraria H", is the largest brewery in Southeastern Europe, requested an integrated online system for automated ticket sale of the events they organize.
The implemented integrated system aimed to develop the following components:

- Booking system – those who organize the events can set the location layout, price rules; the tickets are delivered to online stores through web services;
- Marketing system – collects and processes data on customers' preferences in order to generate prediction reports on the events that need to be promoted;
- Mobile application – allows users to purchase the tickets online and to receive them in electronic form, with a QR code for validation; also, users of mobile application can define their personalized profile for notification of the events, which they want to attend.

Main technologies: C# MVC, C# Web Api 2, Code First, .NET Framework 4.6.1, Hangfire, SignalR, PostgreSQL, Redis, Android (Java), iOS (Swift)

1.1.16   Informational System E-File within Integrated Courts Management System (ICMS) and its extension with new functionalities

Informational System E-File within Integrated Courts Management System (ICMS) and its extension with new functionalities	
Beneficiaries: the Ministry of Justice of the Republic of Moldova, the Agency for Courts Administration, the Superior Council of Magistrates and national (domestic) courts **Implementation period:** October 2016 – November 2018	**Contacts:** Valentina Grigoris Interim-chief, the Agency for Courts Administration within the Ministry of Justice. Phone: +373 22 271 814

Project description:

E-File Information System (IS E-File) is an IT solution aimed on immediate benefits and impact on the Courts activity. It is an IT solution for: Government to Government (G4G), Government for Citizens (G4C) and is aimed to satisfy the informatic and informational needs of the justice process actors.

The direct benefeciares of IT system that will allow submition of the requests for legal action, data management of ICMS files, and others, will be: citizens of the Republic of Moldova; the Ministry of Justice; Prosecutors; Judges; Lawyers.

The primary purpose of IS E-File is to provide courts with a high-performance IT solution for automation of the process of submitting requests for legal actions in electronic format, and to exclude the necessity to submit the file case at the court chancellery.

The IT solution will automatically register all the users' actions, with a detailed record of the data, parameters of the requested information and requests related to the processes of case management.

The main advantage of the IS E-File as it allows to track, in real time, all the events regarding the process of submition /examination of the cases and requests for legal actions.

IS E-File provides access to external users (prosecutors, lawyers and participants involved in the process) for:

- Submission to the court of the requests for legal action, with attachment of all the materials regarding the case, in electronic format;
- Payment of the state tax by a lawyer via Mpay platform, with automatic attachment of the payment confirmation to the file;
- View in the personal calendar the date and time of the hearing sessions that will be attended;
- Accessing and download of all the evidences of the case;
- Submiting the evidences in electronic file;
- Accessing the integral file from the unique repository;
- Receiving notifications on case events (summons, postponement of the hearing, etc.);
- Uploading any documents in order to be examined within hearing;
- Access to the minutes of the meeting, audio and video recordings (in process of develop);
- Attendance at the hearings via videoconferencing (including video-streaming), etc.

Main technologies: .NET MVC, SQL Server, SQL Reporting Services, XML, HTML, JavaScript, jQuery, CSS

1.1.17 GET-PES – Web platform for evaluation of satisfaction degree of the PES clients

GET-PES – Web platform for evaluation of satisfaction degree of the PES clients		
Beneficiary: SC MEDIA ONE SRL, under project no.POSDRU 180/4.1/S/155353 implemented in partnership with AJOFM Arad, AJOFM Brasov, AJOFM Bihor and the Association of Young Managers. **Implementation period:** August 2015 – November 2015		**Main technologies:** ASP.NET, Javascript, jQuery, MS SQL Server, SQL Server Reporting Services

Project description:

The objective of the contract was to provide customization and training services for solution designed to evaluate the degree of satisfaction of PES clients (PES: The Public Employment Service).

The services were provided and customized for each of three (3) partners of PES, depending on their needs and specifications. The software solution, also, aimed to implement an electronic archiving system for each of three PES in order to increase the efficiency of activities, to ensure control of documents within the entity and direct access of PES clients to internal files, including through available information stands.

Main technologies: ASP.NET, Javascript, jQuery, MS SQL Server, SQL Server Reporting Services

1.1.18 Modification and development services for Integrated Case Management System (ICMS), to Electronic Judicial Statistics Module (EJSM) and Performance Dashboard (PD).

Services of modification and development for Integrated Court Management System (ICMS), to Electronic Judicial Statistics Module (ELSM) and Performance Dashboard (PD).	
Beneficiaries: the Ministry of Justice of the Republic of Moldova, the Agency for Administration of the Courts, the Superior Council of Magistrates and national (domestic) courts **Implementation period:** April 2015 – August2015	**Contacts:** Cristina Malai Deputy-Chief Phone: +373 22 270 177

Project description:

The full automation of the courts through the Integrated Case Management System (ICMS) and the court hearing record system „SRS Femida", aimed to increase significantly the efficiency and effectiveness of the justice process. By implementing the proccess of automation, the judicial activity became more transparent, thus, the citizens' access to the justice process was simplified. Under this project was achieved implementation of updated version of the ICMS, according to the legislative requirements, users' and of the Superior Council of Magistracy, by identifying the effective implementation solutions as the ICMS to respond optimally to them.

Tasks:

- To modify and develop new functionalities of ICMS for (The request of legal action);
- To identify the changes that should be made at the source code level in order to implement the modifications within ICMS, as it specified in the Technical Requirements;
- To eliminate the detected deficiencies;
- To adjust the Electronic Judicial Statistics Module (ELSM) specified in the Technical Requirements;

- To adjust the Performance Dashboard (PD) specified in the Technical Requirements;
- To implement the modifications specified in the Technical Requirements for ICMS, ELSM and PD.

Solutions:

To modify and develop new functionalities of ICMS for (The request of legal action) as follows:

- Requests – request registration – civil case;
- Requests – search engine;
- Settings – filled in by the judges;
- ICMS Logs;
- Administration – Configurations;
- Transfer of the data and CTS support
- Transfer of the files;
- General Classifiers;
- Judges blocked from assignment;
- Web-service - ICMS and web portal;
- To review the reports generated from Electronic Judicial Statistics Module for judges and courts of appeal;
- To review and test the reports generated from the Performance Dashboard for judges and courts of appeal.

Main technologies: ASP .NET, MVC, C#, JQuery, Razor View Engine, SQL Server.

1.1.19   Behave - Bloomberg Application

Behave – Bloomberg Application	
Beneficiary: Pixelixir SA Luxembourg	**Main technologies:** WPF .Net, Bloomberg API, WCF

Project description:

Bloomberg App Portal is a relatively new concept, launched in the end of 2012 – the beginning of 2013, and is an portal for apps dedicated for Bloomberg clients, who have installed the Bloomberg application on specific terminals.

The portal apps are developed by various companies, usually, by those related to financial environment, and are promoted by Bloomberg around the world, at different presentations.

As far as is concerns the architecture, the applications are developed by the technology - WPF .NET 3.5 client profile, and run in a sandbox operated by the Bloomberg portal. Most of the applications are connected to databases via WCF services.

The application Behave is a product developed by „Soft Tehnica", in collaboration with other two companies, from Luxembourg and Belgium.

Application specifications:

- Uses WCF service for interconnection to own database;
- Uses the interconnection with Bloomber's Web Services to collect data about companies listed on the stock market, and the history of their shares;
- It has 4 main screens, with several secondary ones;

- The application complies with the Bloomberg security regulations and is included in the list of Bloomberg App Portal Applications (currently, less than 50, all over the world);
- It contains many charts, tables of value, references;
- It is one of the most valued apps available on the portal and differs a lot from other apps by implemented graphics and other multiple options.

Main technologies: WPF .Net, Bloomberg API, WCF

1.1.20 Maximus ERP

Maximus ERP	
Beneficiary: SMEs from South-East Europe, and not only	**Main technologies:** ASP .NET, Web Services, Javascript, Ajax, MS SQL Server, SQL Server Reporting Services
Project description:	
It is an application for management of small and medium-sized enterprises. It is 100% web-based app, thus, it does not require installation on client computers, and can have an unlimited number of accounts. The app includes the following modules: - Project Management; - Internal Planning Tool; - Client Management (CRM); - Employee Activity Management; - Support Tickets. **Main technologies:** ASP .NET, Web Services, Javascript, Ajax, MS SQL Server, SQL Server Reporting Services	

1.1.21 Shop Network Reports

Shop Network Reports	
Beneficiary: Chain stores	**Main technologies:** ASP .NET, XML, Log4net, Web Services, Javascript, jQuery, Ajax, MS SQL Server
Project description:	
It is an application for chain stores that aimes a more efficient management to increase the income & expense. It provides the option: To introduce the receipts for each store per day: - Cash receipts; - Card receipts; - Vouchers receipts; - To intoduce an approximate trade markup for each store, per month;	

- Retreive automatically trade markup from the previous month.

To introduce store expenditure per month:

- Rent;
- Wages;
- Utilities: electric power, gas, water;
- Metrology;
- Freight transport;
- Other expenses.

To generate reports, based on input data that can be exported in Word, PDF or Excel formats:

- Reports on receipts and profit progress;
- Reports on receipts, per days or months;
- Reports on receipts and profit, referenced to commercial space or number of employees;
- Report of comparative analysis of 2 months;

All the reports can be generated on the whole chain of the store, a group or a particular store.

Main technologies: ASP .NET, XML, Log4net, Web Services, Javascript, jQuery, Ajax, MS SQL Server

1.2 Experience in Mobile application development

1.2.1 Design and development of a mobile app that lets you schedule your text messages

Mobile app that lets you schedule your text messages	
Beneficiary: Colciar and Buda Limited **Implementation period:** May 2020 – October 2020	**Contacts:** Madalin Mije, Project Manager Phone: +40 785 720 625 E-mail: madalin@revolutionapps.app

Project description:

The customer commissioned Indrivo to design and develop an iOS / Android mobile application that allows users to schedule and send personalized messages to friends, colleagues, business partners, customers or employees. The system must allow users to plan and specify the exact day and time at which the text message is to be sent.

For personal use: this app should allow people to stay in touch with friends and people around them at the moments that matter. This app aims to help people never forget to tell a friend "Happy Birthday", "Good luck" or "Congratulations".

For business use: this app should help businessmen plan their activities better by sending scheduled appointment reminders, meeting reminders or other messages to customers, employees or partners automatically.

Solutions:

One of the main features of the App is that once downloaded, it instantly syncs with other user platforms, such as WhatsApp, Facebook Messenger, Viber, Telegram and WeChat, without the need to add contacts manually. .Net Core was chosen as the main language for the Back-end development, for the web front-end, we used Vue.js, while Xamarin served as the language for mobile development.

- Encrypted messages;
- Scheduled (multiple) messages;
- Scheduled messages for (multiple) GPS locations;
- iPhone/Android geofence;
- Comprehensive design.

Results & Benefits:

We have developed a unique mobility solution that helps users plan and schedule messages that will be sent on any wished day, allowing the user to specify the exact times the message shall be sent. The app also allows users to schedule and send text messages based on their contacts geofence (a location-based software that uses GPS) location area. The user defines the geographical area by selecting it on the google map. The system monitors for when the contact enters that specific area, being it home, office or a hotel and automatically sends a scheduled text message to the selected person.

Main technologies: Xamarin.Forms, .NET Core 3.1, MediatR, Mapster, FluentValidation, PostgreSQL, Vue.js, Vuetify, Vuex

1.2.2 Development of the BizRep mobile application

A leading-edge pharmaceutical Sales Representatives App for Android, iOS, Mobiles and Tablets	
Beneficiary: Setrio Soft SRL **Implementation period:** March 2020 – June 2020	**Contacts:** Andrian Pavel, Sales Executive Manager Phone: +40 757 086 036 E-mail: adrian.pavel@setrio.ro Lucian Preda, Project Manager Phone: +40 757 086 035 E-mail: lucian.preda@setrio.ro

Project description:

Founded in 2004, Setrio is a software development company in the health and logistic sector. During the years of activity, Setrio managed to develop and introduce, on the Romanian market, a series of new applications. Their technological solutions address the healthcare industry, pharmacies, physicians, warehouses and distributors. Through data management and interpretation systems, Setrio offers optimal infrastructure support, advisory services and business support.

Hence, the requirements of our customer were to develop a unique mobility solution that on the one hand will help pharmaceutical companies manage their sales teams, evaluate their performance and track their activity, and on the other hand will allow the sales representatives to operate effectively, store the most complete data about customers and

organizations, schedule and monitor the visits, record the results and history of interactions with customers despite their extensive work movement.

Solutions:

Indrivo developed a comprehensive mobile APP with friendly UI/UX that enables not only keep track of activities performed by the sales team but also help them maintain and update the database of doctors, chemists and other contacts. The solution can be used as a stand-alone tool for managers and can be easily integrated with the company ERP or CRM. It also generates various reports about the sales team activity, productivity and time schedule. The application provides the functionality to plan visits, which empowers the sales team to easily view the calendar with assigned tasks along with information regarding the relevant contact(s).

High-level features and **functionalities** of the system are:

- Planner;
- Tasks planning & monitoring;
- Activities & meetings tracking;
- Time management;
- Bonus system;
- Database Management System;
- Client & doctor own data file;
- Reporting & analytics.

Optional Features:

- Integration with the ERP or CRM system.

Results & Benefits:

The project was initiated to provide a solution in terms of developing a mobile application specifically designed for the pharma vertical, to track the activity of the sales team and empower the management to capture the movement of representatives, to monitor the team more effectively and efficiently. The immediate benefits of such a sales application are the elimination of paperwork and the updating of operations, transparency and accountability throughout the organization. Customer trust can be improved and steps can be taken to further boost the organization's operations. The app enables to have all the necessary information available on the phone or tablet.

Main technologies: Xamarin.Forms, .Net, MvvmCross, ReactiveUI.

1.2.3 Financial Advisory knowledge sharing app for a global enterprise

www.deloitte.com	
Beneficiary: Deloitte **Implementation period:** December 2018 – February 2019	**Contacts:** Gesiarz Aleksandra E-mail: agesiarz@deloittece.com Korsak Mateusz E-mail: mkorsak@deloittece.com
Project description:	

The goal of the project was to provide a financial advisory knowledge sharing application which would enable and facilitate partners and directors to share their knowledge about potential opportunities, to stock a large amount of information and documents, and handle a large number of users without compromising the performance of the app. The app has to be interactive, easy to navigate, enable real-time communication and offer a great end-user experience irrespective of the device.

Solutions:

Considering the client's requirements, we planned and developed an easy-to-use knowledge sharing application, which brings the partners, directors and shareholders at one place. The project was aligned with a dedicated project manager to ensure delivery on time. Before the delivery, the app has been robustly tested to provide no errors.

Xamarin was implemented by our team to develop a windows application with secure mobile API interface, allowing secure mobile access. Azure was chosen to provide the identity service to allow for members to sign up themselves and for the capability to allow the organization's staff to sign in with their Office 365/Azure AD logins.

- Architecture design;
- Back-end and Front-end application development;
- Authorization service integration (ADFS integration);
- Testing & quality assurance;
- Application deployment and launch.

Results & Benefits:

The client received a product that matched their vision – a quick, simple and flexible mobile application, which allows the information management in an easy to use format and in a controlled and secure manner.

The techniques used through deployment have allowed other application to be implemented more efficiently and is easily testable and deployable across multiple Azure environments, providing the flexibility required in modern application development.

Main technologies: Xamarin, Azure AD, MS SQL.

1.2.4 Smart home app to monitor and control the ventilation system from anywhere

Smart home app to monitor and control the ventilation system from anywhere	
Beneficiary: Renson Ventilation **Implementation period:** April 2018 – August 2018	**Contacts:** Filip Lambrecht Product Manager Phone: +32 56 627 111 E-mail: Filip.Lambrecht@renson.be

Project description:

Our goal was to create a smart application that will help to run the homes' ventilation system by adding value to the homes and bringing benefits. The application had to be personalize so that the device could be easily adapted to the end user's needs. The challenge was to create a system that connects all the hardware and software components.

Solutions:

To create Waves, we used Xamarin with about 90 percent of the shared code. We provided end-to-end mobile application development services that included the integration of backend and mobile applications designed to deliver high performance in controlling the air quality manually or switch it to automatic mode. So that data could be easily exchanged, a connection between the Waves application and Waves device had to be established.

Technical realization of the Waves app was the miniature version of Renson's successful Healthbox product. The Healthbox was made to ventilate an entire house, while the Waves was created to ventilate a single room.

Results & Benefits:

The smart app has the role to ensure that the air quality is always under control, in the most energy-efficient way, transmits the data to the app, and adjusts the operation to the user defined parameters. Because Waves will control the fans to only run when needed, less power will be used and the devices will have a longer service life and less damage. It continuously monitors the air, its pollution and quality, it also offers the possibility to view the detailed data for the last 24 hours or the last 7 days.

Main technologies: SQL, Xamarin forms, Akavakhe, Xaml, c#.

1.3 Experience in web application development using PHP technologies (Drupal)

1.3.1 Development of landing pages and online shops for local MSMEs

Landing pages and online shops for the AdTrade project (The Advanced Cross-River Capacities for Trade Project)	
Beneficiary: MSMEs (micro, small and medium sized enterprises) from both banks of the Nistru river Financed by: Swedish Government Implemented by: United Nations Development Programme (UNDP) **Implementation period:** July 2020 - Present	**Contacts:** Cornelia Panico Project Associate AdTrade Project, PNUD Tel: +373 22 839 868, +373 69 019 709 E-mail: cornelia.panico@undp.org

Project description:

The Advanced Cross-River Capacities for Trade Project (AdTrade) provides assistance for the creation of long-term trade links between entrepreneurs on both banks of the Nistru river and enabling an environment of trust and cooperation in the region. The project supports the development and enhancement of the competitiveness of micro-, small and medium-sized enterprises (MSMEs) and contributes to the creation of new companies, which, implicitly, will lead to improvement of the living conditions on both banks of the Nistru river. As a part of the project, benefiting companies solicited the provider to build landing pages or e-commerce platforms.

Solutions:

- Elaborated the site, e-shiop design;

- Created content in 3 languages (Romanian, Russian, English);
- Integrated online payments;
- Setup the shopping cart for users;
- Set up the Email Service integration and SMS notifications;
- Created content and took professional photos for products;
- Provide a media library to re-use media (Images, Videos, Audio, Documents) and any media component, insert video from external resources;
- Placed the products on the online shop;
- Set up multicurrency, change prices according to region/country of the website visitor;
- Produced high quality and relevant content for the online store or reviewing the existing one;
- Develop functionality for registration through Twitter, Instagram, LinkedIn.

Results and benefits:

Our team developed 11 websites using Drupal (3 e-commerce platforms and 8 landing pages). Developed products are multilingual and operational on laptops, tablets, PCs, any mobile devices, other means used by users to navigate the Internet, while also considering the needs of users with disabilities. These solutions are aligned with the latest technological and design trends, provide advanced means for an efficient presentation of the benefiting companies and portfolio of their products. Developed platforms have proper navigation, fast loading speed and a good layout.

Main technologies: PHP 7.3, Composer, Bash script, JavaScript, CSS, Drush, jQuery, Apache, Twig, Apache2, Git, Sass/Js Compiler, Ajax, DDEV, API Bank

1.3.2 Design and production of an eLearning platform for Tekwill in Every School initiative

An e-Learning platform	
Beneficiary: National Association of ICT Companies Sponsored by: United States Agency for International Development (USAID) **Implementation period:** July 2020 – December 2020	**Contacts:** Tatiana Alexeev Project Manager Phone: +373 68 281 061 E-mail: talexeev@ict.md

Project description:

Tekwill is created with the support of the United States Agency for International Development (USAID) and the Government of Sweden through Swedish International Development Agency in the framework of the project "Development of Moldova ICT Excellence Center" implemented by Moldovan Association of ICT Companies (ATIC) in partnership with Technical University of Moldova (UTM). Tekwill encourages local startups and existing companies to expand and attract international IT companies to invest in Moldova.

"Tekwill in Every School" initiative is aiming to provide all schools in Moldova the opportunity to access a free e-Learning platform and benefit from an innovative, online curriculum, as well as, stay connected to all Tekwill's educational resources and opportunities.

The platform is aimed to provide online courses for students aged between 13-19 years old, teachers, education leaders, parents and educational influencers. It should be accessible in 3 languages, Romanian, Russian and English and support simultaneously 10,000+ online learners at any time. The platform should support several authoring tools such as webinars, video conferencing, live meetings, chats, gamification, badges and certifications.

To manage this complex project, our team followed an Agile Scrum methodology. The gamification feature assumes getting certificates to motivate the learners. The system empowers teachers to create custom courses and execute management processes of education by creating various types of content, tracking online assessment and generating certificates.

Platform Highlights:

- Modular web portal with a built-in CMS;
- Automated coaching process;
- Messaging systems;
- Learner/Trainer dashboard;
- User activity tracking;
- Import/Export of .doc, .pdf, and .ppt files;
- Payment gateway integration;
- Tracking and analysis tools;
- Reporting tools.

Main technologies: Drupal 8; Opigno LMS; PHP; MySQL; HTML; JavaScript; CSS; Drush.

1.3.3 Development of SELIA.md marketplace

Development of SELIA.md marketplace	
Beneficiary: Indrivo SRL **Implementation period:** February 2020 – September 2020	**Contacts:** Eugeniu Lupușor General Manager Phone: +373 79 733 016 E-mail: eugeniu.lupusor@indrivo.com 51/1 M. Kogalniceanu str., Chișinău, MD 2012, Republic of Moldova

Project description:

With over 25 categories, 280 sub-categories and over 50 brands, Selia is becoming one of the fastest-growing marketplaces in Moldova. The marketplace sells products across an extensive range of categories, from electronics, smartphones & gadgets, to children's accessories, fashion, home & garden and many more.

Selia is a good opportunity for B2C brands and professional sellers and re-sellers to expand on Moldova's online market. Buyers can shop from multiple sellers in a single transaction, secure, immediate online payment, free from any fraud risk.

All of the above make Selia one of the largest and most reliable e-Commerce partner from Moldova.

Results & Benefits:

The overall goal of the Project is to help companies to adapt the business model for continuity through creation a digital Marketplace platform providing connection between companies and end Customers to connect supply and demand, especially in today reality.

- Automation - to enable efficient and effective functioning;
- Effective Sale/Purchase processing - to increase cross-selling and make extra profit;
- Smart governance - to increase transparency, monitoring and control of entire sales process;
- Scalability - the system handles substantial number of concurrent users and transactions;
- Warehouse & Logistic Management system - warehouse & logistic management capabilities; integration with third-party logistics tracking system;
- Invoicing & Settlement - to enable seller to raise invoice/debit/credit note, receive/make payment and settle the complete transaction through system.

Main technologies: Drupal 9, PHP, HTML 5, jQuery, Apache.

1.3.4 Develop e-Notifier system (Curbing Corruption by Building Sustainable Integrity)

e-Notifier system	
Beneficiary: The National Anticorruption Center (NAC) Sponsored by: United Nations Development Programme (UNPD) **Implementation period:** September 2019 – December 2019 Link: http://www.relawed.cna.md/	**Contacts:** Mr. Iurie Tarcenco E-mail: iurie.tarcenco@undp.org, Ms. Olga Crivoliubic E-mail: olga.crivoliubic@undp.org

Project description:

The National Anticorruption Center (NAC), the authority that reports to Moldovan Parliament, is specializing in the prevention and fight against corruption, corruption-related acts and corruptible deeds. It also performs the tasks of the Secretariat of the Monitoring Group for National Anti-Corruption Strategy implementation. Among others, the National Anticorruption Center is the responsible body for conducting anti-corruption assessment of laws and by-laws, as well as for coordinating corruption risk assessment process in public institutions.

The National Anticorruption Center needed a platform to flag laws which generate or may generate corruption cases. The platform should allow citizens who are direct beneficiaries of normative acts, private sector and civil society representatives to signal laws or normative acts containing ambiguous and interpretable provisions that may generate corruption.

Thus, the main technical objectives of this project were:

- to develop a mechanism for managing the submission processes of notifications;
- to ensure a case management workflow;
- to provide reporting functions.

Solution:

The platform's interface was designed by the winning team attending the "Hack Corruption. Law to the People." LEGATHON organized by UNDP Moldova in partnership with NAC. The participants were guided by anti-corruption experts and IT specialists (business analyst and designers) from Indrivo.

To answer all of the technical challenges, Indrivo planned, executed and tested each step from conceptualization to implementation and maintenance, meticulously. Drupal 8 was chosen for its flexibility and customizable features, being the most secure Open Source CMS in the market, stable and scalable enough for this platform to be launched. Step one of development was focused on creating all the custom API integrations with Legis.md (state register of legal acts, regulations and laws). All API integrations were coded to reduce latency and improve functionality.

Our team worked hard to develop two interfaces for this platform, an intuitive user interface (for unregistered users) which enables users to complete the task for which they came to the website and a well-designed, easy-to-maintain interface for administrative activities for NAC experts.

The project was managed using agile methodologies, we created prototypes and continuously released modules with essential functionalities. Indrivo provides ongoing maintenance, ensuring that the code of the platform is always kept up to date.

Results & Benefits:

The objective of this project has been achieved. This application has the role of increasing the quality of normative acts, people have now the possibility to get involved in the process of improving the legal framework, to take action, to identify and notify the deficient normative acts which have generated or can generate acts of corruption, abuse or other illegalities. The reported cases are reviewed by the NAC experts to identify the corruption risks and suggest modifications. Finally, the revised and amended laws are republished in the state register of legal acts.

Main technologies: Drupal 8, PHP, JavaScript, HTML / CSS, Twig

1.3.5 Development of Web Platform for "Isabelle KASS Bijouterie-Joaillerie"

Development of Web Platform for "Isabelle KASS Bijouterie-Joaillerie"	
Beneficiary: Isabelle KASS Bijouterie-Joaillerie, Luxembourg **Implementation period:** March 2019 – May 2019 **Internal Link:** http://ikbj.dev.indrivo.com	**Contacts:** Patrick Hoffmann E-mail: patrick@scope.lu Bruno Martins E-mail: bruno@scope.lu Address: Luxembourg, str. Notre Dame 41

Project description:

Maison Kass relies on a vast experience in jewelry. Isabelle KASS represents today the third generation of this important family of jewelers in Luxembourg. The jewelry store was founded in 1936 and respects the values of work, innovation, quality and customer satisfaction defined more than 80 years ago.

Thanks to an experienced team, Isabelle KASS Bijouterie-Joaillerie assures its customers maximum confidence and discretion.

The jewelry store is located in the La Belle Étoile Shopping Center, Luxembourg.

The goal of the project is to develop an eCommerce platform that will permit Beneficiary to sell his jewelry online.

Web platform development includes:

- Create the authentication module for internal and external users of the web platform;
- Development of the functional for online selling of jewelries;
- Configure payment methods: online with a credit card (SIX Payments), PayPal;
- Configure delivery methods: national, international and pick-up from the physical store. Also, configuration of the delivery cost depending on chosen delivery method;
- Configure discount module;
- Interconnection with the existing POS system „JShop" of the Beneficiary.

Main technologies: PHP7, Drupal8, Drupal Commerce, Jquery, Twig, MySQL

1.3.6 Web Site - Superior Council of Prosecutors

Web Site – Superior Council of Prosecutors	
Beneficiary: Superior Council of Prosecutors Sponsored by: Council of Europe **Perioada de implementare:** March 2019 – July 2019	**Contacts:** Eugeniu Roșca, Head of protocol service, international relations and with the public of the CSP Apparatus Phone: +373 22 828 511 +373 61 117 488

Project description:

The official website of the SCP is an effective means of information and communication between the Prosecutor's Office and the general public.

The basic objective of the requested works is the elaboration of the design of the official WEB page of CSP in the Internet network - www.csp.md, including the provision of a content management system.

The site ensures that objective and authentic information about the core activities of the SCP is made available to the public.

The site is a multi-level information resource, contains three language versions: Romanian, Russian and English. The structure of the site is divided into a public area and an area (only in the Romanian language version) with restricted access (access only for the internal network of the SCP).

Main technologies: Drupal 8, PHP 7.2, MySQL, Apache2, UML, Composer - modules management, Git - version control, Drush - config sync, NodeJS Sass/Js Compiler.

1.3.7 Development of intranet system for report generation "SES Eaux"

Development of intranet system for report generation "SES Eaux"	
Beneficiary: SES Eaux, Luxembourg **Implementation period:** January 2019 – June 2019 **Internal Link:** http://seseaux.cs1.soft-tehnica.com	**Contacts:** Patrick Hoffmann E-mail: patrick@scope.lu Bruno Martins E-mail: bruno@scope.lu Address: Luxembourg, str. Notre Dame 41

Project description:

SES Eaux is an organization that monitors the water usage/production for Luxembourg's south region. It includes communes that adhered to it and has 2 big Elevation stations (Koerich + Dondelange) and 1 Reservoir (Rebierg)

The system is used to generate the annual report. The actual report is contained from many statistical parts, that will be entered by the Beneficiary during the whole year. Afterwards, the actual report is generated from the 'selected' parts and exported as a PDF / presented as a separate web-page.

Report contains following information types:

- Generic info – type of content is responsible for a basic Title + Content part of the report;
- Water production – type of content is used to represent an entry for water that has been "produced" by a given source during 1 month in a given year (in m3);
- Water usage – content type represents an entry for used water per client in a month for a given year in m3;
- Electrical usage – content type represents an entry for the electricity used by the 2 big pumping stations (Koerich and Dondelange).

Also, the system contains and organigram with information about Syndicate's staff.

Development of **new functionalities** includes:

- Create the authentication module for internal users of the system;
- Development of the functional for introducing different types of information that afterwards will be used for generating the annual report;
- Configure the module for creating and generating the report in various formats, including PDF.

Main technologies: PHP7, Drupal8, Jquery, Twig, MySQL

1.3.8 Development of Web Platform for "Boucheries BRILL"

Development of Web Platform for "Boucheries BRILL"	
Beneficiary: Boucheries BRILL, Luxembourg	**Contacts:** Laurent Koener, General Manager

Implementation period: February 2019 – July 2020 Internal **Link:** http://boucherie.cs1.soft-tehnica.com	Phone: +352 691 182 672 E-mail: lkoener@koconsult.lu tkoener@kcg.lu Bruno Martins, Marketing Manager Phone: +352 691 991 295 E-mail: bmartins@brill.lu Address: 17, rue des Gaulois, L-1618 Luxembourg

Project description:

Boucheries BRILL it's a butchery company that have 7 butchery shops across Luxembourg. In addition, they have also a catering service "BRILL Traiteur" intended for a target group with a higher purchasing power.

The main goal of Boucheries BRILL project is to develop a web platform with two different frontends (one frontend for the butchery shops and another frontend for catering service BRILL Traiteur), but with a common backend.

Development of the ecommerce platform for online selling of existing products of the 7 butchery shops. Each of the Boucheries Brill shops has its own stock, from where clients can purchase products available in menu, also they can purchase the products available at the offer.

Development of the ecommerce platform for the catering service BRILL Traiteur. It contains special offers, a different menu with a more varied and high quantity assortment of dishes.

Also, for the stock, sales and promotions management, the platform is linked with Beneficiary's existing accounting and management tool (Leogest).

Web platform development includes:

- Create the authentication module for internal and external users of the web platform;
- Development of the functional for online selling of butchery shops (separate the stocks for each store);
- Development of the functional for online selling of catering service products;
- Development of the functional which allows creation of two product types: finite and processable. Also, development of the functional which allows updating the information about processable products after these products were processed;
- Configure payment methods: online with a credit card (SIX Payments), PayPal, option to pay the products cash at the delivery or at the pick-up from the physical;
- Configure delivery and delivery costs calculations (delivery costs are calculated depending on the distance);
- Configure discount module;
- Interconnection with the existing accounting and client management system Leogest.

Main technologies: PHP7, Drupal8, Drupal Commerce, Jquery, Twig, MySQL

1.3.9 Elaboration of the e-platform Concept within the "Joint Opportunities in Business for Youth" Project

e-platform Concept within the "Joint Opportunities in Business for Youth" Project

Beneficiary: Organization for the Development of the Small and Medium Enterprises Sector (ODIMM)	**Contacts:**
Implementation period: February 2019 – April 2019	Oxana Paladiciuc Program Coordinator, Business Support Infrastructure Department Phone: +373 22 225 079 E-mail: oxana.paladiciuc@odimm.md paladiciuc.oxana@gmail.com

Project description:

The E-Platform is designed to ensure the collection, processing, storage and dissemination of information by developing, adapting and implementing the business idea and standardized business plan model, to create a management mechanism for the main business plan development processes to monitor the processes, intermediate and final results, to allow users free, convenient and interactive access to resources with useful information in order to develop their own business.

The E-Platform has the following **objectives:**

developing an environment that provides beneficiaries with the means to create a business plan and achieve the business idea;
providing authentic, truthful, current and consistent information to all actors involved; fast, guaranteed access to data and information regardless of location;
automation of data collection, storage, processing and analysis of the process of elaborating the business idea and the business plan;
increasing the level of training in the field of business, in order to create an efficient business plan and implement the business idea.

Main technologies: Drupal 8, PHP 7.2, MySQL, Apache2, UML, Composer - modules management Git - version control, Drush - config sync, NodeJS Sass/Js Compiler PHP, Drupal 8, Javascript, HTML,Twig

1.3.10 Platform for local representatives performance monitoring related to community services offering in the Republic of Moldova (ADEPT)

Development Platfor for local representatives performance monitoring related to community services offering in the RM	
Beneficiary: Participative Democracy Association (ADEPT)	**Contacts:**
	Inna Vrinceanu E-mail: inna@e-democracy.md
Implementation period: October 2018 – January 2020	Polina Panainte Project Manager
Link: https://www.serviciicomunale.md/ro	Phone: +373 22 210 422 +373 69 189 671 E-mail: polina@e-democracy.md

Project description:

The developed and launched easy-to-use online platform offers citizens and interested parties some efficient instruments to monitor the performance of local representatives on offering the community-based services. The website will grant the transparency and responsibility for 34 municipalities and districts in such things as water supply, canalization, public transportation, road infrastructure and streets lighting. This also includes website maintenance and setting of easy functions such as navigation, flexible searching algorithm and easy to understand folders for data storage.

Solutions:

We have developed a highly secured platform in public domain that can be easily accessed by all the citizens regardless of device used.

An easy-to-service and fill website;
Capacity to compare the localities by approx. 100 performance indicators;
Illustrated cartography for different indicators charts;
Automatic tables generation – the possibility to collect the shown data by different indicators;
Possibility to enter and edit each indicator and locality data;
Charts generation;
Locality passport – a separate page for any of the 34 localities, containing short info, conclusions, infographics.

Main technologies: PHP, Drupal 8, Javascript, HTML,Twig

1.3.11 Workflow Management Platform & e-Learning for Institute of Financial Studies (ISF)

e-Learning and Workflow Management Platform	
Beneficiary: Institute of Financial Studies (ISF) **Implementation period:** October 2018 – January 2020 **Link:** https://examinari.isfin.ro/	**Contacts:** Laura Elly NAGHI Director of Vocational Training Center E-mail: laura.naghi@isfin.ro

Project description:

The workflow management platform of the Institute of Financial Studies is an IT solution that will enable the efficiency and modernization of the activities carried out within the institution. The "Workflow Management Platform" aims to create a virtual environment to streamline the processes of:

- Management of professional training;
- Evaluation or examination of candidates;
- Definition of occupational poles and specific competencies;
- Managing the Register of Competency Assessors (RECs) by type of competencies that will include independent evaluators of the Mentor Register Management Competence Center (RM);
- Managing the Lecturer's Register (RL);
- Managing the process of advising scientific and professional actions;
- Management of the Specialists / Operators Registry (RSO) and their professional trajectory starting with the process of enrollment, simulation and support of the

professional qualification examination and continuing with the continuous professional training and certification related to the occupational profile chosen;
- Managing online examination/training payment flow for Candidates, Employers and Suppliers;
- Automated generation of graduation certificates of competencies;
- Managing Suppliers and Employers.

The implementation of the project is done by using Drupal Opigno Learning Management System with the following features:

- Roles Management;
- Training and Course Management;
- eCommerce;
- Reporting;
- Integration;
- Security.

Main technologies: Drupal 8, Opigno LMS, php7.1, MySQL, Apache, UML, Yml (psr4), git, drush.

1.3.12 Casino Luxembourg - the place to promote modern art and explore current events and exhibitions

www.casino-luxembourg.lu/	
Beneficiary: Casino Luxembourg **Implementation period:** June 2018 – October 2018 **Intelnal Link:** http://casino-lu.indrivo.com **Link:** http://newsite.casino-luxembourg.lu	**Contacts:** Thomas Hoffmann E-mail: thomas@project2.lu Bruno Martins E-mail: bruno@scope.lu Address: 41 Notre Dame Street, Luxembourg

Project description:

Casino Luxembourg, being a web platform, required to ensure a new, fresher, user-friendly navigation design for their website, development and optimization of a ticketing tool that provides the possibility for managing tickets, books, publications or office supplies sales. For inventory and sales records, it was necessary to link the beneficiary's accounting tool to the new platform. We also aimed to create an events calendar, develop a data collection instrument and establish interconnection with the ProSys Sage BOB 50 accounting system.

Solutions:

Since the beginning of our engagement with Casino Luxembourg, we has designed, developed and continuously delivered cutting-edge enhancements in support of the Casino's most high-profile information campaigns.

When developing the website we have used Drupal, it offers a lot of easy-to-use tools and it is also extremely extensible, so we could make all the changes required by the client. The customer's website also required an e-commerce feature, Drupal Commerce was the right

choice and it was no problem to integrate it with all the other aspects of the customer's website.

Results & Benefits:

We have been successful in developing and delivering an effective solution to address all issues related to improving and managing the client's requirements by building a strong, powerful website that is at the same time simple to navigate, informative and offers unique experiences tailored to their visitors' and customers' needs.

Main technologies: PHP7, Drupal8, Drupal Commerce, Jquery, Twig, MySQL

1.3.13 Moldova's first citizen driven website for reporting corruption

www.faracoruptie.md	
Beneficiary: e-Governance Academy Foundation **Implementation period:** December 2018 – April 2019 **Link:** https://faracoruptie.md/	**Contacts:** Kristina Reinsalu Project Manager Phone: +372 528 1392 E-mail: kristina.reinsalu@ega.ee

Project description:

The goal was to develop and design an interactive website to encourage citizens' participation in the fight against corruption in Moldova. The platform aims at transform Moldova into a corruption-free society, provide information about different aspects of corruption, enable the users to advance their knowledge on corruption from different perspectives and provide the users with the opportunity to report corruption-prone procedures and everyday life situations. All the submitted information through the application should then be collected, compiled on a platform that aggregates all reports into general statistics, showing the total amount of corruption cases and purposes that are most common.

Solution:

With a team of experts, we were able to deliver a Drupal 8 and PHP 7.2 based digital solutions. We built a website that integrates technical complexity with functional simplicity, with the focus on security, transparency and optimized structure, combining it into a single CMS and making it easier to manage. The backend has been customized with a detailed workflow process. This workflow system allows the client to manage all content publishing without the help of IT staff members.

Project Highlights:

- Advanced Drupal 8 and PHP Development;
- Intuitive front end design;
- Multilingual Delivery Elements;
- Mobile responsive layout;
- Editable features.

Results & Benefits:

The website aims to increase citizens' participation in the anti-corruption fight. The users have the possibility to report corruption cases by writing texts, uploading videos or pictures

including details about where and when the corrupt act occurred, the platform allows users to send reports and stay anonymous at the same time.

- a platform where citizens can raise awareness regarding different aspects of corruption;
- allow users to send reports anonymously;
- view reported cases, categorized by the type of case reported;
- help citizens recognize, avoid and tackle corruption situations;
- collect data, identify and analyze corruption trends to detect public services prone to corruption.

Main technologies: Drupal 8, PHP 7.2, TWIG, HTML, JQuery, CSS 3 (preproccess SCSS, compiled by GULP)

1.3.14   Website development services of the State University of Medicine and Pharmacy "Nicolae Testemitanu" from the Republic of Moldova

Website development services of the State University of Medicine and Pharmacy "Nicolae Testemitanu" from the Republic of Moldova	
Beneficiary: "Nicolae Testemitanu" State University of Medicine and Pharmacy of the Republic of Moldova **Implementation period:** April 2018 – August 2018	**Contacts:** Silvia Ciubrei head of department, spokesman Phone: +373 22 205 235 E-mail: silvia.ciubrei@usmf.md

Project description:

The purpose of the project was to create a website for Nicolae Testemitanu State University of Medicine and Pharmacy in order to facilitate the access of stakeholders (students, faculty, etc.) to information about the activity of the USMF Nicolae Testemitanu IP institution.

Tasks:

- Analyzed the current system and created the website structure as well as the elaboration of the prototype version of its graphic presentation;
- Developed a system with sub-domains for several structural units of the University (faculties, departments, laboratories, centers, etc.) with the possibility to divide the content;
- Examined the roles of users, permissions, ensuring access to the administration panel of USMF staff from different departments according to the assigned roles;
- Developed the "Organization Charts" module for the online display of the organizational structure of the University;
- Developed a convenient system for displaying lesson schedules and examination sessions for students;
- Developed a poll and voting component;
- Implemented a flexible component to automate the subscription to newsletters and correspondence (Newsletter).
- Migrated data to the current website.

Main technologies: Drupal 8, Apache, php 7.1, HTML5, MySQL Oracle, Ajax, XML, JavaScript, CSS

1.3.15 Development of Web Integrated Platform for International Federation of Photographic Art (FIAP), Luxembourg

Development of Web Integrated Platform for International Federation of Photographic Art (FIAP), Luxembourg	
Beneficiary: International Federation of Photographic Art (FIAP), Luxembourg Sponsored by: FIAP budget **Implementation period:** September 2015 – present	**Contacts:** Thomas Hoffmann Project Manager Subcontractor – Hcommunications SA, Luxembourg Phone: +352 26 211 545 E-mail: thomas@project2.lu

Project description:

Photography clubs and associations worldwide join the FIAP, pay a yearly membership and are authorized to make photography national contests supported by this federation. The project aim was to develop a complex web platform in order to manage all workflows, starting with registration of the organizations in the system to management of contests, including on-line store that sells awards/medals and related items, and their delivery.

The actors who interact within the system are:

- Organizational Salons;
- FIAP Operational memebers;
- FIAP Sponsorships;
- FIAP Secretary;
- FIAP Treasury;
- FIAP Delivery Department;
- FIAP President and the top management.

Drupal Solutions:

For the FIAP platform, the Developer chose Drupal Commerce distribution. Although this distribution is shop-oriented, it combines the platform's flexibility with the latest store management technology. Many of the components detected during the business analysis showed that using this distribution would cover the main part of the functionalities. Thus, was created an additional layer for business process management - the flow for completing new contests form, the contest rejection/approval steps - a task perfectly managed by Drupal, with the standard commerce components: shopping cart, order, invoice, integrated payment.

The peculiarity of the solution comes from its challenges and how they were solved by the Developer with Drupal:

- Complex system of permissions, roles, business processes;
- Integrared payments – Paypal;
- Integrated delivery;
- Using the Entity API to create complex data structures;
- Events auditing system.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, SQL Server.

1.3.16   Interactive map online

Interactive map online	
Beneficiary: Center for Health Policy and Analysis **Implementation period:** October 2017 – December 2017	**Contacts:** Vasile Bounegru IT Coordonator Tel: +373 22 226 343, ext.112 E-mail: vasile.bounegru@pas.md

Project description:

Design, development and implementation on the web platform of an interactive map, compatible with mobile devices, used to display epidemiological indicators of tuberculosis in the Republic of Moldova.

This assignment will include the development of a dynamic and digital web map, displaying data history, evaluation of results and responses, information disaggregated by different levels and indicators, including organizational areas of responsibility assigned by sectors.

Tasks:

- Development of the functionality of displaying data on the map from the existing Excel database;
- Providing a solution for updating the data of the displayed interactive map, associated with continuous changes in the Excel database;
- Develop a tool for the user interface to filter and display data by sectors.

Main technologies: Amcharts, Drupal, Php, HTML, CSS, Web Server Apache and MySQL Database.

1.3.17   UCIMP   website   development   and   upgrade www.ccm.md

Web development and site maintenance services ccm.md	
Beneficiary: The Public Institution "Coordination, Implementation and Monitoring Unit of the Health System Projects" (UCIMP) **Implementation period:** June 2018 – December 2018	**Contacts:** Angela Carp Procurement Specialist, HIV Project, Tel: +373 22 233 568 E-mail: acarp@ucimp.md

Project description:

The CNC TB / AIDS website is a strategic communication tool and an information platform for both constituents and the general public. Systematically, the site www.ccm.md is updated with news in the field of prevention and control of Tuberculosis and HIV / AIDS, relevant information about the Global Fund grants and provides those interested with important documents from the activity of the National Coordination Council of national TB

programs and HIV, its partners and donors active in controlling communicable diseases.
Main technologies: Drupal, Php, HTML, CSS, Server Web Apache, MySQL.

1.3.18 GIN - News Management Information System (Global Internet News, GIN)

GIN - News Management Information System (Global Internet News, GIN)	
Beneficiary: Central European News, CEN **Implementation period:** June 2016 – March 2017 **Link:** http://cen-t4.com/	**Contacts:** Michael Leidig owner and CEO, Central European News (CEN), E-mail: editor@cen.at

Project description:

GIN is a cloud-based web application designed to meet the operational needs of the global journalist community, who are accredited members of the NewsTeam community (NTC). This web solution includes a new editorial system - Enterprise Resource Planning (ERP) that includes news production, distribution and financial system regarding the the internal control of income/costs.

GIN 3.0 is a software system currently used by Central European News (CEN), based in Austria.

GIN 3.0 provides the innovative components as follows:

- Workflow engine configurable for internal news feeds;
- Measurement System of various Business Indicators (KPIs);
- Differentiated financial reward systems for employees, for each role in the system;
- Financial management and reporting system;
- Customer Relationship Management system (CRM), including a monitoring function for news posted bu the clients and automatic billing (through a semantic text processing algorithm);

- Interoperability mode for integration of the system with other related systems needed within a news agency activity.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, Apache SOLR.

1.3.19 Development of the "E-Admission" Information System for the National Institute of Justice (NIJ)

Development of the "E- Admission " Information system for the National Institute of Justice (NIJ)

Beneficiary: the National Institute of Justice (NIJ)	**Contacts:**
Sponsored by: United Nations Development Programme (UNPD)	Tatiana Ciaglic Chief of department for E-Transformation, E-Training and Information Technologies, NIJ Phone: +373 22 232 755 E-mail: inj@inj.gov.md
Implementation period: June 2016 – September 2018	
	Alexandru Cocirta Project Manager, UNDP the Republic of Moldova, Phone: +373 22 245 079 E-mail: alexandru.cocirta@undp.org

Project description:

The development and improvement of the information system of the National Institute of Justice (NIJ) is a response to the need identified by the top management of the National Institute of Justice (NIJ) in order to modernize this tool and make it better serve its users. Under the project "Strengthening the technical capacities of national institutions for protection and promotion of the human rights", implemented by the United Nations Development Program (UNDP), with support of the Ministry of Foreign Affairs of Denmark, the National Institute of Justice is the strategic partner and key beneficiary. The project was aimed to develop the institutional capacities of the NIJ to develop strategic visions, automate admittance processes, modernize initial and ongoing training programs and methods offered to candidates for positions of prosecutor and judge, and to the acting judges and prosecutors. The major objective of the project is to simplify the management of the annual examination of the candidates for vacancies of prosecutors or judges. The development of the E- Admission Information System has enabled the NIJ to facilitate the process of conducting the annual examination of the applicants.

The system allows the applicants to open an account in the system, to provide the required information and to attach scanned documents in accordance with the Rules of Organization of Admission Contest to Initial Training of Judges and Prosecutors at the National Institute of Justice, approved by the NIJ Council on 29.06.2011. The electronic program simplifies the examination process, evaluates automatically knowledges and shows the result of examination when the candidate gives the last answer to the test. The new module ensures transparency, eliminates the human factor and suspicion of exam fraud, increases confidence in the correct selection of candidates for Initial Training for positions of judge and prosecutor. The electronic test module includes 1600 grid-tests, developed by the Working Group that consists of NIJ trainers. The tests were published on the NIJ website, with the correct answers. When the exam starts, the program randomly generates an unique grid test for each contestant, which contains 400 questions - 100 questions for each disciplines: civil law, civil procedure law, criminal law and criminal procedure law - the contestant must choose only one answer from three.

Information System "E-Admission" had the following objectives:

- To provide an on-line application mechanism for candidates for the vacancies of prosecutor or judge;
- To provide a mechanism that interacts with the exam module within the ILIAS Training Platform in order to regulate the computer-based examination process;
- To provide a working tool for NIJ employees in managing the examination process.

The projects **objectives**:

- To develop an examination module based on Training Platform "ILIAS" as interface module of the Informational System "E-Admission";
- To develop a new specialized version of the official site of NIJ enhanced with an accessibility mechanism for visitors with disabilities, including vision disturbances.

Drupal Solutions:

- To develop a full admittance-test management module, including participation and admittance management;
- To examine the roles of the users and permissions, to ensure the intranet access for NIJ staff, interested parties of the justice institutions and trainees, according to their roles;
- To enhance the security of the information system of the National Institute of Justice and improve the security of personal data;
- To develop online tutorials and guides for administrative staff of the National Institute of Justice (NIJ), interested parties of the justice sector, trainees and trainers.

Main technologies: Ilias, Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, Apache SOLR.

1.3.20   Maintenance and development of the NBM website

Maintenance and development services for the NBM website	
Beneficiary: National Bank of Moldova **Implementation period:** July 2017 – July 2018 **Link:** www.bnm.md	**Contacts:** Radu Gagea Head of the Information Technologies Department E-mail: Radu.Gagea@bnm.md Address: bd. Grigore Vieru 1, Chisinau 2005, The Republic of Moldova

Project description:

Indrivo was engaged by the NBM to help accelerate the digital transformation of the bank. Challenged by the existing operational models, the bank partnered with Indrivo with the objective to redesign a custom theme that aligned with the Bank's existing branding efforts and to provide continuous assistance and maintenance of the website.

The following **objectives** had to be ensured:

- Align the website's functionalities with the NBM communication needs.
- Address and resolve all incidents and issues which raise during the website exploitation with a minimal impact on NBM's activity and image.
- Manage difficulties in using the website without affecting its operation.

Solutions:

The used technologies enabled Indrivo to compress the entire development timeline, designing, implementing and deploying the solution from development to production.

- Menu and dynamic pages - the ability to organize menu, pages and content dynamically.
- Development and integration of a live stream app for NBM conferences directly on the bank's website.

- Establishment of a special mechanism for the promotion of questionnaires online to increase the collection of statistical samples necessary for the activity of the bank.
- Development of an online voting mechanism that enables the bank to make more objective, fair and close to market expectations.
- Automatic generation of spreadsheets and graphs in NBM publications.

Results & Benefits:

The new design is more user-friendly, better-organized, it contains numerous functions and modules that make it dynamic and interactive for its administrators and users.

As a result, we redesigned and transformed one of the most striking information banking website in the local banking industry.

Main technologies: Drupal, Apache, php 5.6, HTML5, MySQL Oracle, Ajax, XML, JavaScript, CSS.

1.3.21 Leonidas – Belgian Chocolate – B2B Integration System

Leonidas – Belgian Chocolate – B2B Integration System	
Beneficiary: CONP D&G SRL **Implementation period:** May 2017 – present	**Contacts:** Ion Codreanu Director

Project description:

After discussing with the Beneficiary, was identified the necessity to implement an integrated IT system to manage with all workflows of the all entities involved in the retail business of chocolate products imported from Belgium.

This type of business differs from a similar one, because it involves several legal entities, hereinafter referred to as Retaliators, operating independently, and at the same time, under the regulations set by the Beneficiary.

The project developed the following components:

- Web B2B Platform - with the following modules: Retailers, Orders, Order Registers, Financial, Product Management;
- Mobile application - Mobile Scanner for processing orders in real time.

Main technologies: Laravel PHP Framework, Mysql, JQuery, JWT, SOAP API, Android

1.3.22 Ombudsman Intranet System

Ombudsman Intranet System	
Beneficiary: Ombudsman's Office Sponsored by: Council of Europe **Implementation period:** July 2017 – February 2018	**Contacts:** Nelea Bugaevski project assistant E-mail: nelea.bugaevski@coe.int

Link: http://intranet.ombudsman.md/user/login?destination=	Dumitru Roman Deputy Head of the Policies and reporting direction Phone: +373 22 234 800 E-mail: dumitru.roman@ombudsman.md

Project description:

The Ombudsman office needed to design and implement a systemthat will be used to create a collaborative environment for documentsharing, to unify all departments and their representatives into a uniqueinformation system, regardless of their geographical locations.

Solutions:

Our team developed the Intranet System using the Drupal technology with a cross-platform capability. It also included a Web publishing function that allows cumbersome corporate knowledge to bestored and easily accessed throughout the organization. The system isdefined as a set of procedures for storing and organizing information, defining and managing workflows. In this case, Drupal was given preference due to its quick turnaround time and flexibility for integration.

Rezults & benefits:

The result was a simple yet powerful tool for communication andcollaboration within the Ombudsman institution, which enhancedworkforce productivity, staff engagement, fostered peer-to-peercollaboration and improved information processing. This, in turn,increased the quality of public services and ensured transparency of the decision-making process.

Main technologies: Drupal 8, php7.1, MySQL, Apache, UML, yml(psr4), git, drush.

1.3.23 e-Learning system for the Border Police of the Republic of Moldova

E-learning system for the Border Police of the Republic of Moldova	
Beneficiary: MIA Border Police Department of the Republic of Moldova **Implementation period:** July 2017 – December 2017	**Contacts:** Andrei Ceban General Inspectorate of the Border Police, Directorate of Information Technology, Phone: +373 22 259 788 E-mail: andrei.ceban@border.gov.md Address: Petricani 19 Street, Chișinău, The Republic of Moldova

Project description:

The objective of the e-learning system consists of coherent and efficient support of the Border Police Department of the Ministry of Internal Affairs (hereafter BPD), in order to implement the online learning tool, as a support for personnel training.

The e-learning system manages various electronic educational resources, allowing them to be modified and organized by the BPD personnel. The web application, with a centralized architecture, will run on the Intranet of the Border Police Department of the MIA, using relational databases without local installations on workstations and without requiring other external programs of the system to manage (including creation) courses, tests,

management users and organizational structure, all modules being integrated into the system.

The e-learning system is available for users of the Border Police Department of the MIA, on the both levels: head office level and for territorial structures, and provides management and administration of training and evaluation/testing process, and offers:

- Administration by the system users, assigning roles, offering access rights, creating target groups on required fields;
- Administration of the content, training courses, including tools that create course content (multilingual one – in Romanian, English, Russian) integrated in the platform;
- Access to a programmed course that runs in real time (live), in a virtual classroom;
- Collaboration with other learners or instructors in chat;
- Searching, sorting, filter courses and system users;
- Creating evaluation tests for learners;
- Passing a test or an exam;
- Reports or statistics based on meta-data in order to supervise the training process.

Main technologies: ILIAS, Apache, MySQL, PHP, PEAR, Ajax, XML, HTML, JavaScript, CSS.

1.3.24 The Web Report Card as part of Integrated Case Management System (ICMS)

The web report card as part of the Integrated Case Management System (ICMS)	
Beneficiaries: the Ministry of Justice of the Republic of Moldova, the Superior Council of Magistracy and national courts **Implementation period:** November 2015 – February 2016	**Contacts:** Cristina Malai Vice Director Phone: +373 22 270 177

Project description:

As part of this project, the main target was to implement a better vision on the necessity to modify the ICMS, both in terms of legislative requirements and those of the users and of the Superior Council of Magistracy, to identify solutions for an effective implementation, so that the ICMS responds optimally to these requirements.

Tasks:

- To develop a Web Statistics Data Sheet for courts (http://statistica.justice.md/app);
- To identify the changes that should be made at the source code level in order to implement the modifications within ICMS, as it specified in the Technical Requirements;
- To eliminate the detected deficiencies of the ICMS, including of the PD (Performance Dashboard) and EJSM (Electronic Judicial Statistics Module);
- To implement the changes specified in Technical Requirements for ICMS, PD and EJSM.

Solutions:

- Developing and publishing Web Report Card for courts that will provide to judicial authorities and citizens a general statistical information in a simple and easy to interpret form. The Web Report Card for courts will be a complex tool used by the interested parties to access a certain information of public interest regarding the courts activity;
- Reviewing the reports on Electronic Judicial Statistics Module for courts and Courts of Appeal;
- Reviewing and testing the reports of Electronic Judicial Statistics Module for the Supreme Court of Justice;
- Reviewing and testing the Performance Dashboard for courts and Courts of Appeal;
- Ensuring interconnections between Web Report Card, Performance Dashboard and Electronic Judicial Statistics Module;
- Developing Web Report Card;
- Testing Web Report Card;
- Publishing a banner of Web Report Card on web portal of the national courts, the Superior Council of Magistracy and the Ministry of Justice;
- Elaboration of 5 new statistics reports on Electronic Judicial Statistics Module for courts and Courts of Appeal;
- Embding 5 additional reports in Electronic Judicial Statistics Module;
- Testing of 5 additional statistics reports for Electronic Judicial Statistics Module.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS

1.3.25 Development of the Automated Information System for Evidence of Refugees in the Republic of Moldova

Development of the Automated Information System for Evidence of Refugees in the Republic of Moldova	
Beneficiary: Law Center of Advocates (LCA) Sponsored by: United Nations Refugee Agency (UNRA) of the Republic of Moldova **Implementation period:** June 2014 – September 2016	**Contacts:** Oleg Palii Law Center of Advocates (LCA), Phone: +373 22 240 899 E-mail: law-center@cda.md Marin Dolinta Project Manager UNHCR of the Republic of Moldova, E-mail: dolinta@unhcr.org Address: Vlaicu Parcalab 8 street, Chisinau, MD – 2009, the Republic of Moldova
Project description: The Automated Refugee Information System of the Republic of Moldova provides management of the refugees data. For each refugee, in the system will be created a personal profile sheet, also, it will allow to add information about refugee's education. When a refugee is employed, the system will allow collecting information about refugee's previous	

job experience. Also, the system will allow to collect information about the received identification cards. In the „Language" field will be added information about the languages the refugee possess, and the level of knowledge: spoken, written and read. If the refugee benefits from certain social privileges, it will be specified in „Social Protection" field. Also, in the refugee's record will be collected information on the actions taken by lawyers regarding the refugee, information on provided social and legal assistance. By generating reports and situations, the system will depict a clear and objective image on the refuges situation and the provided services. The system will generate statistical reports for internal management and funding institutions, will allow management of information about the staff within partner institutions.

Tasks:

- To create a database of the refugees of the Republic of Moldova;
- To create a database of the refugees' profiles;
- To create a database of the refugees' families profiles;
- To create a database of legal cases;
- To create a database of social cases;
- To create a database of legal assistance;
- To create a database of legal assistance data;
- To create a database of nomenclatures data of the refugees of the Republic of Moldova;
- To create the statistical reporting module.

Drupal Solutions:

- Management module of refugees' profiles;
- Management module of refugees family profiles;
- Management module of the list of social assistance provided for refugees;
- Management module of the list of community services provided for refugees;
- Management module of the list of legal assistance provided for refugees;
- Management module of the reports on provided assistance for the refugges;
- Defining the users roles and permissions;
- Management module – management of the content and entities (nomenclatures), roles and profiles of the users (database users).

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, SQL Server

1.3.26 Development and maintenance of the Integrated Enhanced Registers System (IERS) within the National Institute of Public Health (NIPH), Romania

Development and maintenance of the Integrated Enhanced Registers System (IERS) within the National Institute of Public Health (NIPH)	
Beneficiary: the National Institute of Public Health, Romania Sponsored by: the Norwegian Financial Mechanism **Implementation period:**	**Contacts:** Florenta Badici (Simion) Project Manager, Custom Application Development, Subcontractor – Insoft Development & Consulting SRL, Romania,

January 2016 – July 2016	Phone: +40 755 091 317 E-mail: florenta.simion@insoft-dc.ro Valentin Balseanu Departament Manager, Custom Application Development, Insoft Development & Consulting SRL, Romania Phone: +40 726 678 506 E-mail: valentin.balseanu@insoft-dc.ro

Project description:

NIPH is one of the top institutions of Romania that provides technical assistance to the Ministry of Health on issues of control of communicable and chronic diseases, promotion of health and disease prevention. The NIPH has a key-role in surveillance of chronic and communicable diseases. The institution has the necessary research capacity and a large experience in collaborating with other national health institutions, with county health authorities, with various health service providers in different fields. Also, the NIPH has experience in deploying disease registers – cancer register, vaccine register, as well as public health interventions at national level on development of methodologies, training, etc.

The project's aim was to develop 5 national registers in order to support the institution activity at teritorial level by providing workflow management for 4 national centres and 6 regional centers of public health.

The National Centers that ensure professional coordination at the national level of the Institutution are:

- National Center of Surveillance and Control of Communicable Diseases (NCSCCD);
- National Center of Risk Monitoring in the Community Environment (NCRMCE);
- National Center of Health Assessment and Promotion (NCHAP).
- National Center of Statistics and Informatics in Public Health (NCSIPH).

The Regional Centers of Public Health that ensure professional coordination and execution at the regional level of the Institutution are:

- Regional Center of Public Health of Bucuresti (RCPHB);
- Regional Center of Public Health of Cluj (RCPHC);
- Regional Center of Public Health of Iasi (RCPHI);
- Regional Center of Public Health of Timisoara (RCPHT);
- Regional Center of Public Health of Targu Mures (RCPHTM);
- Regional Center of Public Health of Sibiu (RCPHS).

The project objectives:

- To develop an integrated system in order to cover the activity of 5 national registres:
- National Electronic Registry (record) of Vaccines (NERV);
- Unique Register of Transmissible Disease (URTD);
- Health and Environment Register (HER);
- Registry onToxicological Information (RTI);
- Regional Cancer Registers (RCR);
- Migration of the existing data into previous information systems;
- Training the staff to use the workflows of the Integrated Enhanced Registers System.

Drupal Solutions:

For the integrated system of 5 registers, the developer used some of the Drupal key-features to solve the advanced issues.

- In solution development were used the Drupal advantages - the multisite concept with separate databases.
- The Central Registry for synchronizing users via Open ID, SSO, LDAP
- To ensure application security, was created a robust, but flexible system that allows integration of multiple authentication sources, including LDAP and databases. The system has been properly dimensioned to allow storage of all the users defined in the system, and scalable to meet the required performance level.
- Authentication is done only once for all the integrated applications (SSO - Single Sign On). For each user will be displayed only the apps and information for which he/she was authorized.
- A complex system of permissions, roles, business processes.
- Using the Entity API to create complex data structures.
- Integration with Apache SOLR in order to support a large volume of data
- Webservices for exposing data into registers and connecting all external users to each registry.
- Event auditing system.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, MS SQL Server, Apache SOLR.

1.3.27 Updating the IS of National Institute of Justice (NIJ)

Updating the IS of National Institute of Justice (NIJ)	
Beneficiary: „Checchi and Company Consulting Inc." Representatives in Moldova Rule of Law Institutions Strengthening Program (USAID ROLISP) **Implementation period:** June 2014 – February 2016	**Contacts:** Cristina Malai Vice-Director USAID ROLISP Phone: +373 22 270 177 Tatiana Ciaglic Head of E-Transformation, E-Training and IT Department, The National Institute of Justice Phone: +373 22 232 755

Project description:

The development and improvement of the information system of the National Institute of Justice (NIJ) is a response to the need identified by the management of NIJ to modernize this tool in order to serve better for the users. The National Institute of Justice (NIJ) strategy for development and strengthening the institutional capacities of management, training and research for the period 2012-2016 includes clear provisions on the development of the NIJ Information System while the Justice Reform planned for 2011-2016 sets out provisions for a joint database of the National Institute of Justice (NIJ), the Superior Council of Magistrates and the General Prosecutor's Office, aimed to keep records of the NIJ training sessions and the trainees.

Tasks:

- To increase the level of Internet use by the employees of the National Institute of Justice (NIJ);
- To upgrade the mechanism of on-line application to the trainings by the trainees.

Drupal Solutions:

- Developing a module for training course management, including attendance and graduation management;
- Examining the user roles, permissions, ensure intranet access of the NIJ staff, stakeholders from justice sector institutions and trainees according to their roles;
- Enhance the security of the information system of the National Institute of Justice and improve the security of personal data;
- Developing online tutorials and guides for administrative staff of the National Institute of Justice (NIJ), stakeholders in the justice sector, trainees and trainers.

Main technologies: Ilias, Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS.

1.3.28 e-Learning Web Platform for School Inspectorate of Alba County

e-Learning Web Platform for School Inspectorate of Alba County	
Beneficiary: School Inspectorate of Alba County **Implementation period:** October 2015 – December 2015	**Contacts:** Catalina Popescu Project manager, Insoft Development & Consulting E-mail: catalina.popescu@insoft-dc.ro

Project description:

The main object of the contract was to develop an e-learning platform, mainly, for management of pupils' contests (target group - 15,000 pupils). Contests were conducted through a web platform that represents a combination of learning and games. Learning and evaluation materials were delivered to the pupils in game form, organized by levels and sublevels. One of the innovative functionality of the web platform is adaptability, referring to the movement of the pupil within the contests in an intelligent way.

Tasks:

- As a test, we aimed to create a possibility to pass automatically to a lower/higher sublevel, if certain conditions are met (expressed by variable algorithms);
- Interactive possibilities such as invitations and recommendations among pupils to apply for contests (for scored points), or monitoring the supervising activities of the advisers.

ILIAS Solutions:

- Content module – refers to the lessons and tests before the contest, conducted during learning period;
- Contest module – allows creation and management of the contest, running of the tests, generating results according to the scored points for each test or action within the system (for example recommendations to other participants);
- Administration module – administration of the content, entities (schools, groups of pupils), roles and user profiles (teachers, tutors, advisers, pupils, etc.).

Main technologies: Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, LMS ILIAS

1.3.29 Website for chain of restaurants PizzaMania

Developing an on-line platform for ordering / delivery pizza for a local chain of restaurants	
Implementation period July 2015 – September 2015 **Link:** www.pizzamania.md	**Contacts:** Oleg Manea CEO E-mail: marketing@pizzamania.md

Project description:

PizzaMania is a chain of restaurants of Italian food that carefully keeps the traditions and original technologies of the recipes. Every restaurant of the chain has an individual design and athmosfere, which makes the guests feel special. Moreover, there are children's areas, where they can play and feel like home while their parents can sit back and enjoy the true taste of Italy.

A pizza roasting in a special stove oven is one of the Pizza Mania's key of success.

Tasks:

- To develop a platform that will allow to make order and deliver the products online;
- To provide management of the users' accounts, discounts/special offers;
- To provide monitoring of the order;
- Scalability.

Drupal Solutions:

- Commerce Drupal platform;
- Multi user platform, multiple roles (expecting to have ~15000 users, online customers in next 2 years);
- Customized panle for user and administrator;
- Scalability;
- Security;
- Customized module for delivery (validation of costs and time by Client's address);
- Customized module for company's discount programs (e.g. buy 2+1 free, buy 2 items and get the 3rd with a 50% discount, etc.);
- Customized payment modules for integration with local banks (Victoriabank, Moldova Agroindbank).

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS.

1.3.30 E-Lic.ro

Developing an online platform for public and private bidds (tenders)	
Implementation period: September 2013 – November 2013	**Contacts:** Sava Sergiu Email: info@e-lic.ro
Project description:	

E-lic.ro – the first online platform for public procurement bidds in Romania. The first online portal for private companies and state institutions to publish and organize online bidds (tenders) in a simple, secure, transparent and efficient manner. The portal e-Lic.ro provides transparency, efficiency and simplicity of public procurement.

Tasks:

- The platform should provide transparency, efficiency and simplicity of public procurement;
- The platform should provide tools for the customers to emprove the process of public procurement and to make is more easier;
- Equal access to information for all participants;
- Scalability.

Drupal Solutions:

- Custumized modules for user's account balance;
- Module to generate the invoice;
- Module to manage the credits;
- Custumized Drupal module for taxonomy management for large number of terms, vocabularies ~ 10000 terms;
- Intelligent system module that completes the module for marking the active tags;
- Module for Manager notification (participants can subscribe to tender categories)
- Module for balance of accounts;
- Module for management of the user's credits;
- Module for system of automated selection of the winner;
- Integration of Apache SOLR (Solr search can be applied as an alternative for search in basic content, it has additional options and a higher performance).

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS.

1.3.31   Web Platform for VOIP servicies

VOIP Charger	
Implementation period: August 2013 - November 2013	**Contacts:** Petru Goncear CEO E-mail: manager@voipcharger.com

Project description:

Voipcharger.com is an official distributor of VoIP that provides Dellmont (ex Betamax) recharges and Talkfree VoIP accounts performed by credit transfer or generating voucher code from our reseller account to the account of customer's final user. Any account of the brands declared eligible on the home page can be recharged. Any VoIP account is identified by its unique username. The balances of the rechargeable accounts are in Euros/Dollars. The minimal tranfer per transaction is 10 euro/dollars and maximum - 500 euro/dollars.

Tasks:

- User's customized panel;
- Automatic processing of the order;
- Gateways integration of the payments: WebMoney, paysafecard, PAYPAL, Skrill;
- Currency exchange;

- Mechanism of fraud detection;
- Scalable (user accounts, custom user management panels).

Drupal Solutions:

- User's customized panel;
- Automatic processing of the order;
- Gateways integration of the payments: WebMoney, paysafecard, PAYPAL, Skrill;
- Currency exchange;
- Mechanism of fraud detection.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS

1.3.32 Kopernic LMS

e-Learning Platform for Ecological University of Bucharest

Beneficiary: Ecological University of Bucharest **Implementation period:** September 2012 – June 2013	**Contacts:** Mircea Dutu President E-mail: mircea.dutu@ueb.ro

Project description:

The project implements an effective system by which students/master students can access and participate in training courses from any location of Ecological University, or other locations.

By using this e-learning platform, each student/master student can access the courses at distance. Also, through the platform the students can participate in on-line exams. The platform is managed by an assigned administrator from head office. Each teacher is able to manage their own courses and materials (electronic courses and exam materials/tests). All courses and learning materials are embedded in a virtual library that can be accessed by any student/master student.

Tasks:

- To develop an e-learning platform for didactic activity modernization at the Faculty of Economic Sciences, Ecological University of Bucharest, on distance learning management;
- To increase the efficiency of distance learning management;
- To increase the level of computer proficiency of the students and graduates in educational processes;
- To train teachers to use the platform.
- To train users/students to use the platform.

ILIAS Solutions:

- Personalized panel for users;
- Customized access and permission setting;
- Media module for video tutorials;
- Blog module to define a blog for each teacher;
- A Smart Tagging system module that completes the active tags module;
- Wiki type content with free tagging properties.

Main technologies: Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, LMS ILIAS.

1.3.33 E-TENDER. Creating an online platform for public and private tenders

Creating an online platform for public and private tenders	
Implementation period: March 2013 – June 2013 **Link:** http://www.e-tender.md	**Contacts:** Eugeniu Lupusor Email: office@soft-tehnica.com

Project description:

E-Tender - the first online tender platform for public procurement in Moldova. It is the first online portal for private companies and state /public institutions that allows organization of online public auctions, in a simple, safe, transparent, and efficient manner. The e-Tender portal ensures transparency, efficiency and simplicity of public procurement.

Tasks:

- The platform will ensure transparency and simplicity for public procurements;
- It should provide tools for clients in order to make the public procurement process more easier and better;
- Equal access to information for all participants;
- Scalability.

Drupal Solutions:

- Custumized modules for user's account balance;
- Module to generate the invoice;
- Module to manage the credits;
- Custumized Drupal module for taxonomy management for large number of terms, vocabularies ~ 10000 terms;
- Intelligent system module that completes the module for marking the active tags;
- Module for Manager notification (participants can subscribe to tender categories)
- Module for balance of accounts;
- Module for management of the user's credits;
- Module for system of automated selection of the winner;
- Integration of Apache SOLR (Solr search can be applied as an alternative for search in basic content, it has additional options and a higher performance).

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, SQL Server.

1.3.34 Innovating Learning Platform - INOTLES

The Innovating Teaching and Learning of European Studies (INOTLES)	
Sponsored by TEMPUS Program **Implementation period:** January 2013 – June 2013	**Contacts:** Natalia Timus Project Manager

Link: www.inotles.eu	Phone: +373 79 709 430 +373 22 923 442

Project description:

INOTLES is an academic collaboration between the EU universities, specialized in teaching European studies, and East Europe universities, aimed to promote the curricular reform in European Studies field by using innovative approaches in teaching, curricular convergence and capability to create between the European Union and the Eastern Partners.

The EU TEMPUS project is applied for 3 years (2014-2016) and contributes to curricular reform and modernization of higher education in Georgia, Moldova and Ukraine, by implementing innovative pedagogies in European Studies courses at MA level. INOTLES is conducted by Dr. Natalia Timush from Maastricht School of Governance (MGSOG), which brings together three European universities (MGSOG, the Faculty of Arts and Social Sciences of the University of Maastricht, Netherlands; Surrey University, UK; the European Studies Institute, Belgium) and Eastern European Partners (six universities, two for each country: Georgia, Moldova and Ukraine). Building on a systematic analysis of teachers in European Studies, INOTLES will bring together Eastern Partners with EU University Centers of Excellence in Assorted Approaches (including e-learning, problem-based learning and simulations) to create flexible resources for use in the full range of European Studies provision. By establishing best practice, creating training materials and establishing Centers for European Studies in each partner state, INOTLES will strengthen institutional capacity, promote transnational cooperation and strengthen employability of students in a model that will potentially serve as a model for the higher education community more generally. Dissemination will be directed towards outputs in both pedagogical practice and research papers, supported by a robust system of peer-support and evaluation.

Mainly, the purpose of the INOTLES is academic teaching of European studies that includes academic and IT staff, as well as master students of the consortium universities. However, several project activities (dissemination conferences, training provided by the European Studies Centers, contributions to the Working Papers and Policy Papers Series in European Studies) are open to larger groups of teachers and professionals in the European Studies field.

Tasks:

- Developing an on-line interactive web site, Wiki type, open for everyone, when a new community of experts created by INOTLES undertakes an activity, they can share their experience with their colleagues.
- Scalable (approximative ~50000 system centres);
- Translating the content;
- Customized panel for user (teachers – will allow publishing the methodologies applied in learning, blogs, wiki materials);
- Customized acces to the content;
- Blogs;
- Wiki.

Drupal Solutions:

- Customized panel for user;
- Customized acces and possibility to set the permissions;
- Media module for video tutorials;
- Customized blog module for each trainer;
- Profile type module for creating customized profiles for teachers, where they can set up universities they belong to, personal data, etc.
- Nodequeue;

- Wiki type content with free tagging.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS

1.3.35 EURAXESS – Researches in motion

EURAXESS – Researches in motion	
Beneficiary: Euraxess-Moldova **Implementation period:** February 2013 – March 2013 **Link:** www.euraxess.md	**Contacts:** Elena ZAMSA Phone: +373 22 733 365 E-mail: elena.zamsa@idsi.md

Project description:

EURAXESS – „Researchers in motion" is an attractive career path for research field in Europe and a world class research talent fund. Supporting EURAXESS – „Researchers in motion" helps to establish the field of excellence in scientific research in Europe.

Tasks:

- To create a platform to ensure access of science community from Moldova to the European job market, and vice versa;
- The site should be fully compatible with the European platform and be able to synchronize information between platforms;
- The "format" of the platform should comply with technical document developed by the EC.

Drupal Solutions:

- Drafting the theme according to the EC technical documentation;
- Defining the roles and permissions of the users;
- Synchronizing data of local site with European portal EURAXESS via web services;
- Implementation of the Newsletter.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, SQL Server

1.3.36 Sindicard Website

SINDICARD – MasterCard credit card payment system issued by BC "UNIBANK" SA		
Beneficiary: BC "Unibank" SA **Implementation period:** January 2013 – March 2013 **Link:** www.sindicard.md		**Contacts:** Irina Zvereva Phone: +373 22 733 365 E-mail: i_zvereva@unibank.md
Project description:		

SINDICARD is a MasterCard credit card payment system issued by BC "UNIBANK" SA and the National Trade Union Confederation of Moldova. SINDICARD is a regular bank card, also, is a discount card that allows owners to pay for goods and/or services with discounts on various types of business: supermarkets, stores, restaurants, taxi services, sports clubs, pharmacies, insurance companies and others. It should be mentioned that the number of locations where SINDICARD can be used for discounts is constantly increasing.

Tasks:

- Building a platform that will inform customers about the SINDICARD program;
- The platform should ensure connection to the central banking system;
- Creating registration mechanisms to identify the users on the site platform of the banking system;
- Creating web services for interactivity account (account balance, statement, credit card, debit card);
- Management system of the user;
- Partners access to publish bids for projects upgrade;
- Scalability (~ 30000 card holders will have access to their personal data via the platform);
- Security.

Drupal Solutions:

- Customized module for management of the SESSION app to ensure user identification in the system based on the bank system;
- Web service – accounts balance to obtain current data authenticated continuously by the user;
- Web service - cashback system used for reports on discounts received by the customers;
- Current discount offers, news;
- Memcache is used.

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, SQL Server.

1.3.37   MEDSON REGISTER

IS for "Register of families with thyroid cancer" – methods of database compilations, strengthening the genealogy tree	
Beneficiary: Informational Society Development Institute **Implementation period:** January 2013 – March 2013	**Contacts:** Elena ZAMSA Phone: +373 22 733 365 E-mail: elena.zamsa@idsi.md

Project description:

The purpose of this project is to build a genealogy tree for each patient with thyroid cancer pathology in order to identify who of the family members are at high risk of having this pathology in the future.

Thus, to develop geneology trees, it was necessary to implement new algorithms in Drupal, and visualization of the rendered charts was ensured by integration with Graphwiz.

Due to the fact that medical data is strictly confidential, the access to database system has to be limited, according to the user's role and permissions.

The project is in beta version yet, but some institutions are interested to develop this solution.

Tasks:

- Building of a IT system for " Register of families with thyroid cancer ";
- Genealogy trees for people with a high risk of pathology.

Drupal Solutions:

- Customized module for building and viewing genealogy tree of the patients on a library Graphwiz base;
- Customized access to the data (medical data should be strictly confidential);
- Scalable (~ 50000 people should be logged in the database, ~ 1000 users will have access to the database);
- Apache SOLR (Solr search is used as an alternative for searching in the basic content, it has additional features and a higher performance).

Main technologies: Drupal, Mysql, Php, Ajax, XML, HTML, JavaScript, jQuery, CSS, Apache SOLR.

1.4 Experience in web application development using Java technologies

1.4.1 Services on developing SIA functionalities for „Register of enforcement proceedings"

Services on developing SIA functionalities for „Register of enforcement proceedings"	
Beneficiary: Legal Information Center **Implementation period:** June 2017 – December 2017	**Contacts:** Constantin Bragoi Chief of Legal Information Center, E-mail: constantin.bragoi@justice.gov.md Address: 82th 31 August 1989 Str., 4th floor, MD – 2012, Chisinau, the Republic of Moldova

Project description:

The Automated Information System "Register of enforcement proceedings" is a solution of category Government for Government (G4G), Government for Business (G4B), Government for Citizens (G4C), and is aimed to ensure IT and information needs of the actors involved in enforcement procedures, and its purpose is to automatize the records and control of the enforceable documents.

Requirements for the development of new functionalities include:

- Implementation of the work-flow principle for all types of files;
- Implementing the time-counter for all stages and time monitoring;
- Implementing the fee-counter for all stages and calculating the execution costs due;
- Interconnection with state information systems via governmental platform of interoperability - Mconect;
- Filling out the headings, categories, subcategories needed for system implementation.

Main technologies: Java 1.7. Spring, Spring Security, Spring MVC, WebServices (SOAP). For View (front end): Tiles 3.0, Struts 2.0, JavaScript/Jquery; Database PostresSQL.