



Quality Offshore Outsourcing

About StangaOne1

Founded in 1999 as Stanga.Net, the company is an established provider of a wide range of high-quality software services. StangaOne1 offers offshore outsourcing at competitive rates due to the fact that its development center is located in one of the prime outsourcing locations in Eastern Europe, Sofia. In recent years the latter is emerging as a software development leader because of the large number of educated professionals in the fields of mathematics, computer sciences, engineering and Internet technologies. With over 150 high tech specialists, StangaOne1 is your technological partner for outsourcing multi platform programming services for Europe and North America.

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Cimatron - Company overview

Cimatron has more than 20 years of experience in the field of creating software tools for the manufacturing, toolmaking and NC Programming Industry. 200 Cimatron employees offer world-class services to 8,500 manufacturing customers worldwide. Cimatron supports subsidiaries and representatives in over 35 countries on five continents.

The case in point

So far Cimatron has been selling and managing software licenses using internal channels and its own developed distributors' network. The processes of ordering, processing and generating of a license, and reporting of revenues has been done manually by employees in the various departments of the company.

The client approached Stanga.Net with the request to develop a web based system to replace the old system currently in use by Cimatron. The new system called OLS (Ordering and Licensing System) is required to handle the following tasks:

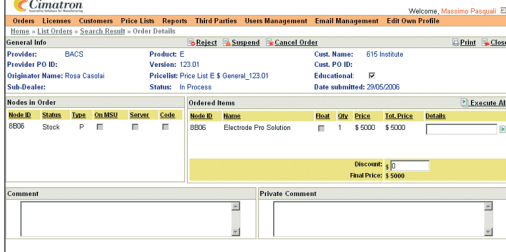
- ▶ Ordering Request (remote access, by the providers)
- ▶ Order execution and license delivery (key codes)
- ▶ Third party royalties (purchased items and maintenance)
- ▶ Pricing (provider-specific pricing lists)
- ▶ Reports (marketing, provider sales reports, revenues)
- ▶ Give providers access into their part of the Cimatron database
- ▶ Licenses and key-code management
- ▶ Interface to the Cimatron accounting system (SAP)

Ongoing project challenges

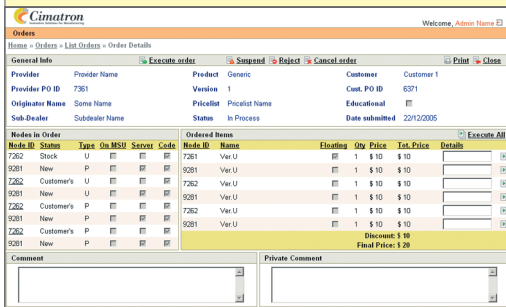
1. In a Multi lingual aspect: the system is required to support data input and search in English and Hebrew
2. The new system should have several access levels and permissions. The architecture of this program is based on 2 separate web servers communicating with the same DB server. One of the servers is located inside Cimatron's Network (Internal Web Server). The second server is located in the DMZ Zone – the External Network of Cimatron. The external users (not physically located in the company) like providers and, distributors access the application through the External Server via a secured HTTPS connection. Users inside the company access the OLS system through the Internal Server.
3. The import of current database of Cimatron from MS Access based ordering system into MS SQL DB server.
4. Implementation of complex business logic

System Requirements

Wireframes



Development



Internal Quality Assurance

Deployment

Clients' Testing and Acceptance

Solution

StangaOne1 team decided to build a web only based system in respect to easier maintenance, easier and smoother deployment, compatibility with any operational system and in case of upgrading the application the client will not need to install newer versions.

StangaOne1 developed the new OLS System in 3-tier web based application.

- ▶ Presentation Layer – HTML user interface and navigation
- ▶ Business Logic Layer – Web Server, this layer involves all the rules, pre-conditions and regulations that refer to the ordering and licensing processes in Cimatron. The code developed in this tier is highly secured since user input crosses secure boundaries
- ▶ Data Layer – Database Server – SQL database is designed specifically following the model provided by Cimatron

Management of user's access rights and permissions.

There are three types of users:

- ▶ Administrator – can view/edit DB (customers, orders, and licenses, pricing lists), approve, reject, put on hold, cancel, execute and complete orders and place orders requests on behalf of providers.
- ▶ Manager – this user can access the OLS system remotely and can review information, compare price lists, see reports and monitor the operations of the Provider users
- ▶ Provider – this user can edit orders, view licenses, compare prices, edit its list of customers.

The system supports Hebrew language for customer names and addresses.

Technology used

The OLS System is being developed using .Net Framework. The user interface is compatible with Internet Explorer 6.0+ Browser

Project Duration and Resources

Cimatron signed the project proposal in September 2005. The Project started in October 2005 and is still current for StangaOne1

The resources evolved in this project include:

- 1 team leader
- 3 .Net developers
- 1 designer
- 1 HTML builder for preparing the prototype and the HTML code
- 3 QA
- 1 Project coordinator in charge of the daily communication with the customer and management of the project.