

## 1. CORPORATE WEBSITE (RUSSIA)

**Customer:** Russian distributor of gas equipment (name is closed by NDA provisions).

**Solution:** Customer needed a website to tell potential clients about its services and receive questions/feedback from existing clients regarding purchased equipment. Moreover, it had to have the following features: newsletter, CMS, products catalogue, request form. ScienceSoft's team:

- Developed products' catalogue module,
- Products request and feedback forms;
- Optimized texts for proper indexing by the search engines;
- Created user-friendly URLs
- Integrated with third-party scripts for work with CMS

**Technologies:** LAMP, Joomla!, SOBI (online business catalog)

**Size:** 1.5 man-months

## 2. PROFI-DENT (BELARUS)

**Customer:** Belarusian dental company ([www.orthodont.by](http://www.orthodont.by))

**Solution:** More and more people search the WWW to find answers to their questions. Whether it's "which supplier to choose", "how to solve my problem", "what other people say" – a well structured informational website is a solution that might help a customer to attract potential clients.

ScienceSoft helped Profi-Dent to create its internet presence. The developed informational website contains newsletter, file archive, CMS features; corporate information, useful recommendations and feedback form.

Our team performed installation of the website at hosting provider server, modules and components development and integration, designed and HTML-coded website pages, optimized texts for search engines.

**Technologies:** LAMP, Joomla!

**Size:** 2.5 man-months

## 3. VIALIGHT CONSULT (BELARUS)

**Customer:** Belarusian legal company (<http://vialightconsult.by/>)

**Solution:** ScienceSoft has developed a customer's internet "visit card" – a classic corporate CMS-based website with the following pages: "About Us", "Services and Prices", "Contact Information", "Order Form".

**Technologies:** LAMP, Joomla!

**Size:** 20 man-hours

#### 4. BAY STATE COLLEGE (USA)

**Customer:** North-American educational institution ([www.baystate.edu](http://www.baystate.edu)).

**Challenge:** Customer needed an update to the existing version of the corporate website, i.e. to add a possibility for the entrants to fill in application forms, to sign up for courses and to plan their school schedule online.

**Solution:** ScienceSoft's team has performed enhancement of the website functionality, incl.:

- Re-design of the website layout
- Deployment of the corporate website on hosting servers
- Development of the new Joomla module for filling-in the application forms
- Added possibility of generating PDF resulting forms
- Updated DB structure for storing the received results
- Added functionality allowing to build the results into the internal college study calendar
- Created a module for administering the application forms

**Technologies & tools:** Linux, Apache, MySQL, PHP, Joomla.

**Size:** 2 man-months

#### 5. 4Balance (Israel)

**Customer:** Israeli legal company ([www.4balance.co.il](http://www.4balance.co.il)).

**Challenge:** Customer needed an informational website with search functionality in the database of legal documents.

**Solution:** ScienceSoft's team has performed re-development of the corporate website so that to add the following capabilities:

- Easy-to-use administration of the website design on the Hebrew, of the search functionality, of the legal documents users
- Multilingual support
- Advanced search through thousands of the legal documents stored on server
- Registration of the legal documents users

**Technologies & tools:** Linux, Apache, MySQL, PHP.

**Size:** 6 man-months

## 6. COMMUNICATION PORTAL (USA)

**Customer:** North-American entertainment company.

**Challenge:** The first phase of communication portal project was undertaken as an initiative to bring a variety of new web services and specifically portfolio hosting to the fashion industry. Realizing that they managed to create a great destination for creative individuals, the customer decided to approach the second phase with a broader brush. It was envisioned that communication portal should become a website geared towards the creative community. The site will serve the community as well as the general public as they investigate creative production.

**Solution:** ScienceSoft team has developed a new look and feel of the communication portal. Moreover, the following additional functionality was added:

- ◆ Portfolios Pages
- ◆ Network Home Pages
- ◆ Network Discussion Pages
- ◆ Individual Media Pages
- ◆ User Home Pages
- ◆ Admin Mail Management
- ◆ Fastget category organization
- ◆ Media Management
- ◆ Advertising

**Technologies & tools:** CSS, XHTML 1.0 Strict, DOM, AJAX, Javascript, LAMP (PHP5, Pear, mysql, Apache, Debian Linux), PEAR, qmail, Imagemagick, PayPal Pro.

**Size:** 3 man-years

## 7. VOIP-IN-A-BOX (Denmark)

**Customer:** GoIP International is a global groundbreaker in delivering complete white label, turnkey "VoIP in a Box" solutions. Developed over the past 5 years - GoIP has managed to put together a State-of-the-Art VoIP communication system that enables any service provider with a full "VoIP in a Box" service that needs to move from traditional communication systems to full IP based systems and services.

**Challenge:** At the initial stage the customer required conversion of the existing system so that being able to use the template engine Smarty. Further the list of tasks was essentially extended.

**Solution:** Existing system was enhanced to use the Smarty template engine. Additional important modules were also added to the system, such as: module of DNS administration, posting, PDF reports generator, PROTX payment system, BIBIT payment system, framework for the system, etc. Moreover the substantial work on the system security improvement was performed (SQL injection, XSS).

**Results:** Since the customer has numerous existing clients, it was needed to adapt the basic system for each particular case. In such a way our team during a very short period of time was participating in the development and system enhancements for the following clients of our customer: Onfone.dk, ClearWire.dk, euvox.net, netdialer.com (XLN). The development process

was improved; SVN and Mantis systems were introduced. System security was improved. Many new important modules were developed.

**Technologies & tools :** Apache2, Smarty, Ajax, PDFLib, XMLDOM, Asterisk, Red Hat, Fedora Core, SVN, Mantis, Language: PHP5; Framework: PROTX API, BIBIT API, Asterisk API.

## 8. WEB-SHOP CONSTRUCTION KIT (Netherlands)

**Customer:** the client is a fast emerging Dutch company that specializes in development of the e-commerce web-applications. The core company's product is their web shop. Today the number of company's customers exceeds five thousand.

**Challenge:** The main challenge was to create an easy-to-use web-shop suitable for any hosting. Previous web-shop version required total reengineering. The main problem was with the front-end of the web-shop: due to the growing complexity of the project certain challenges for further development arose. The customer came to the conclusion that the front-end had to be rebuilt with the use of PHP. Given the absence of in-house PHP developer the customer sought external assistance.

The customer assigned ScienceSoft to the development of PHP version of the web-shop front-end, compatible with any PHP hosting services. It was brought into focus, that web-shop shouldn't use any databases, because there are many hosting services that support PHP but do not support any database management systems.

**Solution:** The solution of the problem can be separated into several stages: on the first stage PHP Lead Developer was sent to customer's side in order to get acquainted with the specifics of customer's work on the project and its current needs. Then, several meetings regarding the future development were held. The structure of the previous version of the front-end has been exposed to the careful examination in order to preserve its advantages while avoiding its major problems. When the analysis was done, the development came into the phase of structural design. The task was separated into smaller subtasks, the responsible persons were assigned and the development schedule has been introduced. And then at the stage of development the tasks that were set in the previous phase were completed and then tested on full-scale web-shop imitation.

**Result:** online front-end has been almost built from scratch. Now it is a flexible and scalable web-shop construction kit, with minimal hosting requirements and considerable customization possibilities. Standard set of options allows creating web-shop for any type of wares and any means of shipping. Advanced users can easily develop their own plug-ins for even more accurate tweaking. It has also become more convenient to create a new look for every web-shop. Now the client is having minor improvements and modifications conducted by ScienceSoft team in terms of support and maintenance activities.

**Technologies & tools:** PHP5, Smarty, XML, HTML, CSS.

## 9. RSS-FEED DISCUSSION COMMUNITY (Russia)

**Challenge:** The challenge was to design RSS-feed discussion community site where users would be able to pick their favorite RSS-feeds and initiate (participate in) conversations on feed topics with their friends. Drupal CMS had to be the base of the site.

### General requirements were:

- \* RSS-feed picking, categorization, and tagging mechanisms. Feed picking means user facility to search feeds on the site or in the Internet and to add those into the private space. Categorization and tagging were needed for better organization of site's feed catalog and for more efficient further search.
- \* RSS-feed site-search mechanism. This was a subset of the first point which had to supply extended feed search/browse logic.
- \* User feed access restriction mechanism. The requirement was to provide the site with such access restriction system which would allow: 1) for a user to define who can access his saved feeds 2) based on assigned permissions allowed users would initiate (and/or participate in) related feed topic discussions.
- \* Buddy system, including buddy grouping facility. The access restriction would apply to the private social circles only. Buddy system was chosen as such the required social circle model.
- \* User-to-user message system. Basic system for message exchanging. Had to be centralized for using in feed discussions, plain (independent) messages, buddy organization messages (requests to other users to become buddies)
- \* Buddy search/invitation mechanisms. The logic had to provide users with facilities to find/invite buddies into their social circles, both already existing on the site (through search + local site messages) and non-users (invitation emails).

**Solution:** First, two Drupal modules were found for the quicker solution: one module provided with efficient and reliable interface for work with RSS-feeds, and the other module gave plain method to organize friend circles.

Second, despite modules efficiency, basic logic of those had to be significantly reworked to fit the requirements of the solution. Besides other, uncovered parts of the whole logic were planned to be implemented as custom modules.

**Results:** All the project had been implemented correspondingly to the requirements and based on pre-researches and pre-designed plan. All subsystems function as needed and summary form efficient space for users to organize discussions on favorite RSS-feed topics. Also super user has efficient administration interface for managing RSS-feed catalog (feed categorization and blacklisting tools, viewing statistics).

**Technologies & tools:** Drupal 5, leech module, buddylist module, several custom modules, PHP 4, MySQL 4.1, Javascript

