

# eLearning Software Solution, Optimize training of the delocalized staff!

**Nearshore services**

Technologies:  
 Linux / Unix, J2EE, Tomcat,  
 Oracle, PostgreSQL



## About Beck et all:

Beck et all Services offers high-quality IT services and support. We convert the experiences won in practice into pragmatic solutions for our customers within the area of Business Service Management Consulting. We use best of breed methodology and tools. Our consultants have an open ear for the customer, understand their needs and can therefore professionally advise and realize support solutions. More information at: [www.bea-services.de](http://www.bea-services.de)

## About Ropardo S.R.L.:

Innovation, Quality, Deliver on Time is our objectives since 1994 when Ropardo S.R.L. start as Technology Company based in Sibiu, Romania. Our expertise is in offshore software development, implementation of complex software solutions and maintenance of software/IT systems for word wide customers. Our services domains are: system and application development, business application, Web and e-business/eCommerce, software re-engineering, software test, maintenance and support. More information at: [www.ropardo.ro](http://www.ropardo.ro)

## Client Challenge

The eLearning solution was designed for optimizing training of the delocalized technical or sales staff in large organizations.

It has two major components: the authoring platform, a collaborative environment for creating eLearning content; the distribution and feedback platform, for administration of courses and learners, by groups and profiles.

The client gave special attention to developing the easy-to-use authoring platform, allowing courses to be created in-house, by editors with 2 days authoring training.

## Authoring eLearning content – the solution

The Ropardo S.R.L. team was involved in developing the authoring platform. It allows the creation of didactic eLearning content in collaborative environment.

The authoring platform allows the following functionalities:

- roles management: manager, specialist, designer, trainer, translator;
- tasks and notes management (linked to lessons and courses);
- media library (sharing multimedia content); courses and lessons
- administration; use of course templates.

### **Multi- language support**

The application supports different languages following the user profile. The courses offer support for simple content translation between various languages without changing/replicating the structure.

### **The elearning content generated with the authoring platform:**

- follows the elearning standard SCORM;
- is generated according to templates representing scientifically;
- structured courses/lessons;
- can be translated with a minimum of editing effort;
- can be personalized with the institution image;
- includes media (images, audio and video files);
- includes interactive elements (commented schemes);
- includes different types of tests (single answer, multiple answer);
- ordering, correspondence.

## Technologies on short

The following technologies were used:

Eclipse framework, RCP, Hinernate, MySQL, Postgre SQL, Oracle 9i, Web Services, Jasper Reports.



### Nearshore Benefits:

- Quality Custom Software Development
- End User Satisfaction
- Short time to market
- Quantifiable Value
- Guaranteed performance level
- Predictable cost
- Based on our specific business model we deliver high value at a good price.
- Flexibility

### More Information

Ropardo S.R.L.  
Mr. Claudiu Zgripcea  
Reconstructiei 2<sup>a</sup>  
550129 Sibiu  
[www.ropardo.ro](http://www.ropardo.ro)  
[office@ropardo.ro](mailto:office@ropardo.ro)  
Tel. +40 269 231 037  
Fax +40 269 231 037

## Project Development

An existing application was taken over and the functionality was extended. Team size was between two and four members – total work volume amounted to approximately 70 MM.

Architecture definition based on client requirements was done in a collaborative manner by both parties. The project management and final testing was done by the German partner. The actual development, maintenance and test work was done in Ropardo S.R.L.

For planning and tracking the project and for reporting issues and requests for change, the mixed German–Romanian team used the project management software iManagement.

Communication took place by email, instant messenger, telephone; weekly reports/discussions were scheduled. When needed face to face meetings in Sibiu or Germany were organized.

Ropardo S.R.L. has delivered the application deployable archives as well instructions for installing and maintenance.

## Technologies

The technologies used were RCP, Hibernate, PostgreSQL, MySQL, WebServices and Jasper Reports.

Java technology was used on the client's request, for reasons of portability and platform independence.

We used MySQL/PostgreSQL as database technology. For connection to the database we used JDBC/Hibernate.

The application is database independent (can use any existent database from the customer such as Oracle, MySQL, PostgreSQL, MSSQL, DB2).

Our team used CVS and SVN for code management and collaborative working. For quality assurance we used JUnit for unit testing and test cases based on customer acceptance criteria definition (per functionality).

Run an embedded web browser inside a Java applet to provide a rich experience (rich scripting support) due to restrictions on application deployment environment. The browser was based on Mozilla Gecko engine.

Export SCORM compliant courses for Flash and Java (applet) players (both provided by the solution) and PDF representation for offline study.