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## Online Fantasy Football Game

### Business Challenge

In order to generate additional revenue and create new business opportunities, IPM - one of the largest media groups in Belgium, decided to organize a virtual football game "Fantasy Football".

Additionally, IPM intended to invest in a framework capable of supporting other versions of portfolio-based games similar to "Fantasy Football".

To fulfill its purpose, IPM was in search for both reliable and competent software development company to outsource the complete software development cycle.

### Project Description

Fantasy Football is a virtual football game that allows to build a team of football players and to compete for a league championship. Players' score points are based on real game performance. Once appointed as a manager, game participant obtains responsibility for the team creation, choice of tactics, purchasing and selling football players.

### Technology Evaluation

At project inception, Intellias Team ran a set of technology evaluation tasks to define a technical solution that could be used for this and upcoming projects.

#### The following technology evaluations were performed

- ▶ Analysis of open source application servers/servlet containers (JBoss/Tomcat 5.x)
- ▶ Evaluation of two major open source portlet containers compliant with Sun JSR-168 specifications: Apache Jetspeed 2 and Exo Platform 1.0.
- ▶ Analysis of schedule technologies (Opensymphony Quartz)
- ▶ Evaluation of technology to be used as a persistence layer: Hibernate 2.x and Ibatis 2.x.
- ▶ Analysis and evaluation of business logic frameworks: Spring and AppFuse/Spring
- ▶ Evaluation of presentation layer frameworks: Struts and Spring
- ▶ Analysis and evaluation of template engines: JSP, XML/XSLT, Apache Velocity, Freemarker
- ▶ Analysis of page decoration technology: OpenSymphony SiteMesh.

### Project Organization and Management

For the Fantasy Football project, Intellias appointed a team of 4 people (1 PM, 2 developers and 1 QA engineer). The project required thorough communication between all the stakeholders, consequently the team intensively communicated via email, Skype/VoIP and MSN messenger.

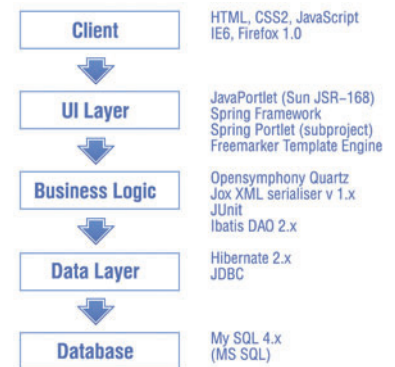
Intellias project team held weekly status meetings (Skype/VoIP) with the client, whose headquarters are situated in Brussels, Belgium. Remote meetings reduced scheduling conflicts and ensured good communication with the customer.

According to the internal standards, functional requirements were defined in Use-Cases, non-functional requirements - according to URPS+ model. To keep a track on the client's requirements and change requests, Intellias project team used Seapine Test Track Pro software.

Project portal website setup was based on Microsoft SharePoint, which enabled shared use of project documentation in 3 locations (client team in Brussels, development team in Lviv and part of QA team in Bucharest).

After the first release of the project, IPM presented some additional ideas, which Intellias implemented and delivered in a timely manner. Our Team developed new functionality and improvements, installing and testing them for acceptance on the pre-production server.

Migration to the new release of the project was initiated as the system received 15,000 active users, resulting in creation of about 40,000 teams and initiation of 20,000 transfers daily. Reliable and well-tested migration procedure enabled quick and predictable upgrade.



### Delivered to the Client

- ▶ 55,000 lines of code
- ▶ 405 classes and interfaces
- ▶ 20 man-months of project work
- ▶ 35 database tables, millions of records

### CASE Systems Used

- ▶ PowerDesigner DataArchitect 6
- ▶ Rational Rose 2000
- ▶ TestTrack Pro 6
- ▶ Surround SCM 3.x
- ▶ CVS SCM
- ▶ MS SharePoint Portal 2003
- ▶ MS Project 2000
- ▶ MS Visio 2000

### Methodology

- ▶ RUP
- ▶ J2EE design patterns
- ▶ INTEMS ERP & PM