

Complex GIS Application Development for an international leader in business analytics software applications



Client

The Client is an international leader in business analytics software applications based in Perm, Russia. The company develops award-winning software applications for business intelligence management that helps clients analyze and organize macroeconomic data and create data-based econometric models. Its Analytics Platform has been recognized for its usability, functionality, and strong vendor support. The international company prides itself on exceptional consultative and customer-centric approach, and rapid ability to build customized analytic applications for its clients.



Challenge

The Client needed to rapidly develop a custom geo-enabled software application that would help derive business intelligence data. They wanted a cooperative partner with extensive experience in the development of complex GIS applications and chose Intetics for its GIS expertise and outstanding project collaboration ability. The Client wanted a modern web application with interactive user experience, where the user could display and edit geographic layers and custom objects, such as technical means and map splitting into squares. The software application had to contain the capability to create and edit point, line, and polygon geo objects. The new application also required full integration with a parent application, in order to function as part of an automated information complex and to provide the most optimal geo-based business analytics results.



Solution

The project began when Intetics engineers developed an application prototype that served as a proof of concept. After the approval of the first prototype, Intetics created an Offshore Dedicated Team (ODT) that consisted of 3 Senior Intetics software engineers, who cooperated closely with the client's project manager. The ODT model

allowed the most optimal collaboration process, security and quality control. The Intetics team was given responsibility over all technical decisions; the team supervised all technical aspects of GIS software implementation and ensured technical compatibility and integration among all systems. The Client's staff supervised the implementation and provided support in regard to the existing parent application and its functionalities. The two development offices maintained close communication throughout the project using various electronic channels, including teleconferencing, e-mail, and shared secure networks. During the application development process, the Intetics team made sure to transfer technical knowledge to the Client's in-house staff to guarantee easy systems maintenance in the future.

Tools/Technologies used:

Programming languages and frameworks

Java SDK 1.7

Spring 2.5

MapXtreme Java 4.8.2

JQuery 1.8.3

JQuery UI 1.10.3

Development Tools

Maven 3.0.3

IntelliJ Idea 12

Web Application container

Jboss AS 7.1.1

Database

Oracle (with Spatial) 10.0.2

Results



In three months Intetics created a fully functional application from scratch, which provided user-friendly interface and superb functionality and enabled users to automate geo activities. The geo application allowed users to easily manage geo layers and objects on the map and display maps in real-time. The application was built to be fully compatible with the Client's parent application. The compatibility enabled users to gain advanced business insights from their geo data using the new application in conjunction with the rest of the Client's automated information system. Despite having limited in-house geo application development expertise, the partnership with Intetics enabled the Client to quickly expand their service offering and better satisfy their user base.