

OrgPlus Enterprise Subscription-based Application

Client Background

The client is a software vendor and creator of a line of web-based workforce intelligence solutions catering to organizational planning, human resources management and budgeting needs of a variety of businesses, from small to large. The company's enterprise suite historically included a web-deployed application for HR data visualization, charting, and reporting, as well as a hosted on-demand offering, aimed at eliminating the burden of deploying and maintaining an on-premises server infrastructure.

Business Challenge

Acutely aware of the common productivity bottlenecks associated with mobile workers being disconnected from the corporate workflows and decision-making processes, the company was actively investigating mobile computing opportunities and took a particular interest in augmenting their enterprise offerings with a mobile application. As the backlog of evolution concerns and feature requests for the enterprise suite reached the critical mass, the company chose to merge the somewhat overlapping feature sets into a single, enhanced offering based on the Software-as-a-Service paradigm, which would combine the benefits of organization-wide reach and dedicated cloud hosting, as well as have a compelling, visually rich graphical user interface.

Project Description

The overhauled version of the system was developed in concert with iTechArt. Early in the project, our attention was focused on developing user interface components for the massive server-side back end, which is powered by .NET 4.0, WCF services and a Microsoft SQL database.

The development process was organized according to the Scrum methodology, which was further adapted for the specifics of remote collaboration. Given a very demanding delivery schedule, the process emphasized unimpeded communication and individual productivity.

The system has a web interface created using a set of cutting-edge presentation technologies, such as Silverlight 4 and Prism, and a mobile client application designed for the iPhone platform.

Web Interface

The Silverlight application allows visualizing HR data imported from external sources (such as a spreadsheet file or any standard system database) as well as manually creating highly usable organizational charts of boardroom quality. The application enables virtually anyone to easily create professional-looking graphics based on a rich set of design templates, which are easily modifiable to give prominence to the key sets of data and assist decision-makers in quickly extracting the necessary information and understanding complex dependencies. Users are also enabled to enhance their charts with images and icons and export them as Microsoft Word, PowerPoint or PDF documents.

Overview

Client

Provides services to over 50000 businesses worldwide—including 400 of the Fortune 500

Industry:

Software

Country:

USA

Business Value:

Enhanced business productivity

Technical Value:

Visually rich Silverlight application;
Full-featured mobile version

Development Model:

Agile (Scrum)

Services:

Application Development, Mobile Development, Design, QA

Tools and Technologies:

- .NET 4.0
- Silverlight 4
- SQL Server 2008
- NUnit
- nHibernate
- WCF RIA Services
- PostSharp
- Confluence
- Prism
- Silverlight Toolkit
- Telerik RadControls for Silverlight 4
- XML
- JIRA
- SVN
- TeamCity

Mobile development:

- xCode 3.2.2
- MessageUI Framework
- Address Book Framework
- iPhone SDK 3.0 - 4.0
- Security Framework
- System Configuration Framework

OrgPlus Enterprise Subscription-based Application

Mobile Interface

The mobile interface provides access to organizational data and basic functionality. Users can refer to contact information available in org charts, add employees to their contacts, manage personal profiles by phone number, send e-mail and view addresses using the Google Maps service. Additionally available is a specifically optimized set of essential features for viewing the corporate organizational chart and enabling smart search. The application was finely tested on iPhone OS 3.0+ and iOS 4.0.

Value Delivered

Since early 2010, the project has reached several major milestones.

While working on the project, the team has demonstrated solid expertise in the areas RIA and mobile development, as well as the invaluable ability to innovate and keep abreast of the emerging technologies. Implementing a range of non-trivial features required not only experimenting extensively, but also turning for insights to the Silverlight and Prism teams, the developer community and component vendors.

As a result, the Silverlight application provides a singular, desktop-quality user experience with familiar mouse interaction and printing functionality, and takes full advantage of the platform's presentation capabilities. In the same vein, hands-on knowledge of the ins and outs of developing next-generation iPhone software allowed the team to implement a lean, yet visually and functionally elaborate mobile solution.

iTechArt provides in-depth, high-quality and cost effective software development and consulting solutions to corporations across Europe and North America using both onsite and offsite service delivery models. iTechArt was founded in 2003 and has developed substantial strengths Application Development, Project Management and Outsourcing areas. iTechArt possesses deep domain knowledge through its proven research and implementation strategies across many industries including, Financial Services, Marketing & Digital Media, Security, Healthcare & Life Sciences, Retail and many more. We deliver the most effective and competitive solutions to our clients to achieve mutual business growth and success.

Quick Facts

Founded: 2003
Headquarters:
Iselin, New Jersey, USA
Development Centers:
Minsk, Belarus; Kiev, Ukraine
Team: 400+ employees

Industries

Financial Services
Marketing & Digital Media
Security
Healthcare & Life Sciences
Retail
and others

Services

Application Modernization
Enterprise Mobile Development
Custom Software Development
IT Staff Augmentation
Software Testing & QA
Software Maintenance

Technologies

Enterprise Platforms
RIA
Mobile
Web & Intranet Portals
Middleware
Business Intelligence