



Pharmaceutical Partner Portal Case Study

Business Challenge

Struggling to maintain and expand their partner portal, a premier pharmaceutical distribution company in the Asia Pacific region, required a complete update of their sales and inventory information sharing system. The portal, which was originally designed using the now antiquated Model 1 (MVC) architecture model, suffered from a number of problems. These included blending of presentation, authentication and authorization, and data access logic. Serious security vulnerabilities, outdated graphics, and UI issues also existed.

Kforce Global Solution

Kforce Global Solutions' Web Application Enhancement team evaluated and identified weaknesses in the current design and proposed a solution employing best practices and best-of-breed web technology. The team then partnered with the client's subject matter experts and project manager to develop the solution within a five-month timeframe.

The solution had three key components:

- Align the existing architecture with Model 2 (MVC) to deliver modularity, resulting in ease of maintenance, reusability, and flexibility of the application code.
- Utilize the Spring™ framework as a foundation to take advantage of its high extensibility and out-of-the-box components that address almost any custom security need.
- Completely overhaul the UI.

Results

The architecture was brought to Model 2 (MVC) standards and the UI was updated. Security concerns were addressed through the removal of SQL injection and cross-site scripting vulnerabilities. The login process was also encrypted, and a non-cacheable login page and session ID update was provided. Finally, a strong password policy was implemented.

Environment

- **Platform:** Red Hat Enterprise Linux™ RHEL 5.3
- **Language:** Java™, J2EE™, Spring framework™
- **Database:** Oracle™ 10g
- **Web App Server:** Tomcat™/Apache™ v6.0.20

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