



Shinotech Software, Inc. | Global Client Case Study

Optimizing a Web-based Order Management System

Our client was looking to replace an existing desktop application and ensure their new web-based solution could provide easy access, improved user experience and reliable performance. Shinotech conducted an architecture review and continued on to develop the recommended improvements to simplify and enhance current features.

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The Client

Our client provides event technology services for the hotel, resort and conference center industry. They offer their expertise in technology, including dynamic audiovisual, creative, digital, staging and related facilities, and a comprehensive range of services and equipment for events ranging from intimate gatherings to large conventions.

Shinetech was initially engaged to review the architecture and design of the client's new web-based application for order, quote, billing and inventory management. The application was designed to offer the same features as their existing desktop application, but with more convenient access via the web. We conducted the review to assess the application's ability to meet quality and performance requirements and identify any potential improvements.

The Solution

The architecture review was completed within one month. Shinetech provided the results and a reported analysis and recommendations to the client. Key recommendations were reviewed together: improving some coding structure to ensure easier maintainability, consolidating the current two separate MVC models to simplify the dependency between business logic and UI components and optimizing data searches to avoid larger data sets causing any performance issues.

To a large extent, the application followed the architecture layer pattern, but Shinetech suggested an alternative architecture according to the business requirements. This alternative offered easier maintenance and future extensions of the system. We also discussed the non-distributed and distributed deployment approach. Non-distributed has the advantage of simplicity and minimizes the number of physical servers required, while a distributed approach offers the benefits of security and scalability of the system.

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The Result

As Shinetech delivers both development services and strategic advice to our clients, we held onsite workshops with the CIO team to establish project management processes for IT development and review the ERP roadmap. The Order Management system was an important part of the landscape. Based on our recommendations, Shinetech created a work plan and timeline.

We followed our development process that's based on the Scrum methodology, and split into one- or two-week sprints, followed by a production release. The Shinetech team, consisting of a Scrum Master, two developers and part-time technical consultant and QA, worked closely with the customer's Product Owner. We held weekly review meetings and used Pivotal Tracker as the project management tool and Microsoft TFS for source code and release management.