CASE STUDY

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INDUSTRY

Automotive

PROJECT

Convert legacy Oracle Forms 6 based client server applications to state of the art web applications using JEE 5, Struts 2, Spring 3.0 and Hibernate 3.

CLIENT PROFILE

The client is a multibillion-dollar international car rental company with thousands of retail branches across North America and Europe.

CHALLENGE

The client relied heavily on its Vehicle Fleet management and Member Rewards applications, developed in the mid 1990's to support its sales and other revenue generating operations. Both applications were client-server applications built using Oracle Forms technology with Oracle 10g database as the server. Approaching the end of their life spans, the challenge was to convert these client-server applications into robust, highly scalable web applications. The objective was to consolidate and redesign parts of the application that had not kept up with their evolving business while at the same time convert other parts of the application unchanged. The challenge also included securing long-term maintainability for the system, leveraging existing in-house resources and capabilities and reducing external vendor dependency.

SOLUTION

The solution relied heavily on Vgo's modernization product line. ART was critical to the project's success as it allowed for extraction of important business logic and other forms of meta-data from all the screens across both applications. The product also analyzed the application's source code to reveal important internal and external dependencies very early on, which aided in planning and development of reusable components. Once the dependencies and business functionality were identified, the team was able to come up with application architecture and a set core components housing common functionality that could be reused throughout the applications code base.

As part of the actual conversion process, the team used Evo to generate source code (JSP's, Actions, XML mapping files, POJOs etc.) for each form. All Evo generated custom code conformed to the application architecture conceived during the design/planning phase and it leveraged the core reusable components. As a result, the generated source code provided a 'lift' and development time was reduced and the code generated gave the developers the ability to convert functionality as is or modify and redesign as necessary for each form/application screen.

RESULT

The client was able to convert two applications through a combination of conversion and redesign into a state of the art web application. By leveraging Vgo tools and its modernization expertise, we were able to automate and accelerated the conversion process, and the client was able to focus on areas of the application that required redesign. Having an application architecture that is in alignment with their standards and team's skillset enables them to keep maintenance costs low.