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Leading Automaker in U.S - Automation Test Solution

Overview

- The Client required a web-based application that allowed all customers to configure and order vehicles for themselves and their family members.
- UST, in consultation with the client, decided to adopt Automation Testing
- Load, performance tuning at high transaction rates and performance test cases executed per release cycle.
- This proved to be cost-effective since the client could assure that the application worked per the defined performance benchmarks.

Profile

Our Client is one of the leading automobile manufacturers in the world.

Business Requirement

The Client required a web-based application that allows all customers to configure and order vehicles for themselves and their family members. The application included integration with the manufacturing supply chain, the first implementation of the automotive EDI standards – STAR, and included end-to-end status of the vehicle order. The application also accommodated capabilities such as Designate Vehicle, Submit Order, Withdraw Designated Vehicle, View Available Stock and other progressive capabilities and differentiating features.

Considering the complexity of the applications, manual testing could not have assured optimum performance testing. This needed computer aided testing support to determine the performance aspects such as response time and throughput.

UST Approach

- UST, in consultation with the client, decided to adopt Automation Testing. UST with its expertise in HP/Mercury Load Runner and IBM Rational Robot performance testing component provided client the following:
- A detailed analysis of application, environment infrastructure and workload of the application.
- Helped in Identification of key performance test scenarios to build performance environment test suite.
- Executed load and stress test on the application to check endurance of the system.
- Generated recommendations for system performance tuning.
- Load, performance tuning at high transaction rates and performance test cases executed per release cycle. This included specific scenarios that could involve high load such as submitting an order, designating a vehicle, withdrawing the designated vehicle, viewing and updating the available stock.

Benefits

- This proved to be cost-effective since the client could assure that the application worked per the defined performance benchmarks.
- Aided client labs to generate test data for performing integration test, reducing manual effort.
- Provided reusable performance test scripts for testing the performance of critical scenarios.