

A Demand Generation Technology Company

Challenge & Test Requirements:

- ❏ Create a TestNG Maven framework for UI automation and RestAssured for API automation.
- ❏ Do functional UI and API automation and performance testing (load testing) to support 25,000 concurrent users on API calls and 5,000 concurrent users on UI with 30 million plus record in the database.
- ❏ Integrate automation with CI CD pipeline.

Solution and Approach:

- ❏ Used AAIC's accelerator and product **aiTest** to execute multi-browser tests for UI product as well as load test for the backend and frontend application.
- ❏ Created a TestNG Maven framework with Selenium & Java for UI automation and RestAssured for API automation.
- ❏ Used aiTest for UI load testing and Jmeter with **aiTest** for API load testing.
- ❏ Implemented parallel run to reduce build qualification test time from hours to 9 minutes for UI tests and 2-3 minutes for API run.

ROI:

- First batch of UI and backend products went live in early April with no production issues reported
- With a good amount of automation, the customer can roll out updates and new features every 2 weeks

Results

- 01** AAIC's 5 member QA team, led by a QA lead, successfully completed all three core responsibilities of the project: deciding, architecting, and implementing the right framework, doing functional UI and API automation, and performing load testing for 25,000 concurrent users on API calls and 5,000 concurrent users on UI with 30 million plus record in the database
- 02** Automation integrated with CI CD pipeline, enabling fast and efficient build qualification tests
- 03** Successful test for 25,000 concurrent users for backend APIs and 1000s of concurrent users for UI application, providing confidence in the application's performance and scalability



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ABOUT AAIC

We are automation experts, with a majority (> 60%) of our workforce AWS-certified. We assist you in applying intelligence to the Cloud and DevOps, as our name suggests.

Our AWS certified experts create high-performing cloud apps by utilizing intelligent components and smart integrations to accelerate your digital transformation journey.

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