

hostanalytics



The Enterprise Performance Platform™

A scalable, cloud platform for financial planning, consolidation, and reporting

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Case Study: Automation Testing of Enterprise Performance Platform

Company:

Host Analytics provides a single, cloud-based EPM platform. The company has the ability to scale more users and data types with its innovative EPM technology. One of the best accessible platforms for planning, consolidation, modeling, reporting, and analytics

Host Analytics automate these everyday processes to accelerate insights and shortening the time it takes to turn those insights into action. The company relentlessly finds ways to improve EPM through functionality, technology and usability, regardless of size or complexity

Requirement:

Deployed an automated technology solution, an easy approach to compare critical fields from multiple applications and databases. The company's vision was to convert risk management framework to project-based control testing approach into an ongoing and continuous process.

We effectively performed powerful browser-centered automation test scripts using Selenium automation tool. The purpose was to run repeatable tests for application using framework developed by Host Analytics and to update the designed code to GIT Repository. Assisted with code review and run the scripts in batch by providing VM on sprint basis.

We kept few important parameters essential to perform the task of test automation framework for Host Analytics, below are the points:

- Handle scripts and data separately
- Create libraries
- Follow coding standards
- Offer high extensibility
- Less maintenance
- Script/Framework version control

Tool used:

Selenium (Automation tool), XML & Json files (Data Handling), Golden Files (Downloaded files), VM execution, GIT (Push, Commit and Pull)

Automation Task done:

- Assessment and refactoring of existing frameworks and test suites
- Reduced the effort to kick-start automation to improve existing framework related to automated test script creation and execution of data flow
- Supported execution of multiple regression tests during each sprint.

- Periodic reviews to ensure test suites prepared.(Created LoE document for each assigned set of test cases after manual efforts and send the completion date)
- Reduces the effort required to run tests and analyzing the outputs by up to 90%, making the testing process extremely efficient

- Scripted the scenarios accordingly based on the requirements and moved the code to GIT repository. Triggered the batch to run locally as well as on the VM by pulling the pushed code.
- Augmentation of existing test automation frameworks with Thought Frameworks Test Automation Framework components
- Support integration with test management, defects management and continuous integration tools providing complete traceability and lifecycle automation

Challenges faced:

- Error and failures during batch run due to application slow-down and network issue
- Lack of direction from the dev team and unclear end user expectations
- Given scenarios were too huge to cover in single day as framework was bit complex
- Application issues after new code is deployed.
- Delayed action from the management on app or framework issues or reviews.

Overall Solution provided:

- Balanced act between scripting for difficult features and extending coverage. Prepared to budget the time spent on test automation accordingly.
- Smoke test of the application to suffice time crunch, automated end to end at regular intervals to catch small bugs hiding in the corners of your application.
- Swapped scripts execution order to overcome failures during batch run.
- Regular follow-ups on issues faced on given tenant and got the new one for batch run to make scripts work smoothly
- Found alternative solution for objects which had same ids across the same web page.
- Designed scripts using best practices and alternative ways to make scripts pass.