



Simplifying Smoke Testing Leveraging Robotic Process Automation (RPA)

Client

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The client is a leading provider of business process services to government health and human services agencies in the United States, Australia, Canada, Saudi Arabia and the United Kingdom. The Client focuses on offering end-to-end solutions for public health and human services programs that lead to efficient and effective public programs.

Challenges

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The client had multiple implementations of their enterprise health services portal. The portal was a web-based application involving multi-system interaction. With new features constantly being added, there was an underlying need to find a way to reduce the smoke testing time after each build and during maintenance, increase the number of test cases and improve the system quality overall without introducing additional testing time.

The client was also looking at options to automate the smoke testing process as a cost-effective method for identifying and fixing defects early in the Development Life Cycle (DLC).

Solution

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Given that the client's system consisted of a web application, in addition to SOAP UI, Putty, Shell Scripts, Batch Jobs, etc., the traditional test automation Selenium could not be adopted out of the box. Opteamix deployed a team consisting of Testing professionals and a Business Analyst to design a solution that could run seamlessly on all these platforms.

The team designed a Test Automation solution leveraging the AutomationAnywhere RPA Platform. This was a unique solution that harnessed the power of AutomationAnywhere to automate the task of smoke testing. The solution deployed not only ran parallel tests but validated the data and triggered emails once the smoke testing was completed along with reports on the status of the logged test results.



Value Delivered

As a result of the automation of smoke tests, the client enjoyed the following benefits:

- ▶ Opteamix helped the client reduce smoke testing time by 90% and optimized the test cycle time and effort. The previously tedious process of smoke testing now boosted by automation, takes only 2-3 minutes to execute as compared to 45 minutes taken when done manually.
- ▶ Smoke Testing could be scheduled on a regular basis, which completely eliminated the need for manual intervention.
- ▶ Helped the client effectively identify defects with each build of the software.
- ▶ Enabled the client to achieve 100% test automation coverage for cross-browser compatibility by consistently testing against all browsers and devices used by its customers.

About Opteamix

Opteamix is a digital automation technology consulting firm with deep expertise in Application Development, Robotic Process Automation, Artificial Intelligence, DevOps, Enterprise Mobility, and Test Automation Services. We are headquartered in Denver, Colorado with a wholly-owned delivery center in Bangalore, India.