QUALITEST™

Qualitest Helps Leading Biopharma Organization Regulate Digital Products in a Healthy Way to Ensure Success

Challenges

The Client had long development times due to releasing application builds manually.

They were unable to measure mobile screen response time effectively and their code reviews needed overhauling as part of their testing process.

Solutions

Qualitest helped implement the ICICD pipeline & automated processes to help streamline the process of sharing builds with testers.

Qualitest used implicit and explicit wait time to find key elements and release the balance time.

Results

The Client saved an average of 600 hours of development time per build.

Costs were reduced to measure mobile UI screens response time with an average of 9k to 10k USD saved on each project with a scope of 10 mobile devices.

Client overview

Our Client is the leading global platform for biopharma and MedTech regulated digital health products.

They accelerate time to market for their customers' digital health products, including apps, healthcare provider interfaces, analytics dashboards, algorithms, medical devices, connected combination products, diagnostics, and Software as a Medical Device (SaMD) across therapeutic areas.

No one size fits all for infrastructure sizing in the client's projects

When it came to their biggest projects, the Client had not factored in infrastructure sizing in BI and as a result there was a struggle to get the environment ready on time for testing.

Their test data was also heavily reliant on their backend team and getting access to the team was difficult when API services were failing or changing where they are been used on Automation scripts. It was therefore crucial that the backend team were available when needed.

Qualitest was engaged to review their test environment and ensure that it was fit for purpose. In addition, we needed to create different API services for the testing team. These included Azdmp, Dosiba, Dialoq, CSL and Sanofi. Bitap framework and it was crucial that the API services creation was aligned with the testing team for maximum success.

Providing a strong and robust testing environment for maximum success

Qualitest was engaged to review their test environment was factored in during infrastructure sizing and taken into consideration for maximum results. We also ensured that

the API services creation was done in conjunction with the testing team and allowed the team to maintain the API services created as part of the testing process.

During the planned best practices implementation, Qualitest was able to provide the following:

- Set up Jobs on Jenkins to trigger a pipeline for Automated Testing of Build releases and regression suits. Saves significant time in automating the test cases, further reducing manual efforts.
- Improve the Automation Quality and Coverage.
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- KPI's Metrics and Measurement.
- Improve the scores on performance feedback.
- Improve the engagement process on Non-functional testing.
- Explore Security testing Capabilities.

In addition, Qualitest wrote the latest test strategy on manual, automation and NFT test cases/scripts in JAMA and identified the best test automation candidates out of the list based on the matrix designed by Qualitest. Nonfunctional testing was also carried out on their mobile app via the Chrome browser performance tab in conjunction with Sauce devices and Jmeter for their web portal.

"Qualitest was able to identify up to 60% of scoped automation coverage target across all project for the client, with up to 85% of defects unearthed being "High Severity" or "Show Stoppers" and reported in JIRA during automation scripting. "

Key benefits

Qualitest was successful in meeting the Client's objectives:

- The Client was able to identify up to 60% of scoped automation coverage target across all projects.
- 85% of defects unearthed were "High Severity" or "Show Stoppers" and reported in JIRA during automation scripting.
- The Client was able to increase the velocity of scripting and testing on both manual and automation testing.

The Client also benefitted from improvements in these technologies:

- AZDMP
  - 15% automation coverage was completed.
  - 21% of overall defects found in both automation and manual.

- CSL
  - Automation coverage is yet to start.
  - Over about 339 manual defects were found and fixed.

- RPM
  - 100% automation coverage is completed and still ongoing.
  - 23% of overall defects were found in both automation & manual.

- Dosiba
  - 100% automation coverage is completed and still ongoing.
  - 16% automation defects were found.
  - Manual Defects are managed by the Client.

- Dialog
  - 90% automation coverage was completed and is still ongoing.
  - 34% of overall defects were found.

> **The Client saved an average of 600 hours of development time per build, with costs being reduced to measure mobile UI screens response time with an average of 9k to 10k USD saved on each project with a scope of 10 mobile devices.**