Using Automation to Develop and Design Strategies that would Make Data Analytics Seamless

The Client

The client is a large 866 million USD company in annual revenue and assets. This technology company provides products for the analytics market. This makes automation very challenging to deliver automation scripts of two main products. The requirement was to understand products, underlying services, and their structural components.

The Challenge

The main challenge was collaboration with the client to understand the products they sold, structural components, and underlying services.

There were three key challenges:

- We needed to develop a strategy to design configuration-based framework to eliminate fragility induced by data.

- We also needed to develop a clear pathway to eliminate fragility induced by data and configuration variance.

- There were multiple testing streamlines and product components that needed to be tested and processing time to be reduced.

Our Approach

We worked with multiple business stakeholders within the allotted time for planning the project. This included various application and testing teams within the client's organization. We were given the project with a short deadline and had to act fast to meet the client's requirements.

How did We do This?

The short answer: Attention to detail of the client, and their customer's requirements.

Our collaborative approach allowed us to understand, capture, and pass on client requirements in real-time to our quality engineering and product engineering teams. As a result, we had a systematic process to establish communication between the clients accurately. Our approach to capture requirements and having internal teams collaborate seamlessly allowed us to deliver our work on time within the scope established by the project. .

Engagement Highlights

- Engage with the client to understand overall products, structural components, and underlying services.

- Developed a strategy to design configuration-based framework to eliminate fragility induced by data and configuration variance.

- Automated 3000+ test conditions and built end-to-end pipeline.

- Implemented Cypress App Actions.

What did Our Tools and Services Include?

- GUI and Web Services Automation

- GUI – Angular

- .Net, Java

- Cypress

- Browserstack

- Azure DevOps

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What were the key business results?

The client experienced a code usability by

30%

across platforms

There were multiple customizations for

more than 20 clients

The test coverage was improved from

60% to 80%

We also were able to reduce the testing effort by

60%

per cycle

The most important thing to the client was speed. Our approach to planning and executing this project allowed us to reduce the release acceptance from 4 hours to 15 minutes with end-to-end test pipeline.