XORIANT iAUTOMATE CUTS CRITICAL SOFTWARE TESTING TIME

Automated quality assurance delivers quality releases for an in-store digital media platform provider

Client Background

Our customer is one of the pioneers in the interactive digital display segment. They modernize the in-store shopping experience by turning glass doors in-store aisles into an interactive digital display. They have built an amazing technology to modernize the shopping experience by helping retailers enhance the brick-and-mortar shopping experience for the internet savvy customers.

The Objective

With the uniqueness of the scenario to modernize in-store shopping experience and considering the enormity of the challenge, the customer wanted to automate their entire testing and validation processes. Their earlier process was time consuming.

The customer was storing real-time data from the stores where consumers would spend time watching/viewing the products on the screens. This data will then be processed across multiple segments before getting stored in Microsoft Azure Storage. The entire data of the customer's users were residing on three different places, the UI, the Web API and on Microsoft Azure Storage. Their main objective was to automate the entire quality assurance (QA) process and validate the consumer data.

Some of the key objectives of the customer included:
- Helping bug-free product releases
- Automating entire QA process using Selenium WebDriver
- Performing complete QA for functional, smoke, and regression testing
- Verifying data in Microsoft Azure Storage

Xoriant Solution | Key Contributions

The customer wanted a technology partner who can help them enable deliver quality releases faster with minimum defects. Xoriant with its strong domain knowledge and expertise in digital product engineering and quality assurance proposed a testing automation solution using in-house engineering frameworks to enable the customer's end goals. Our engineering contributions included:

KEY BENEFITS

- Reduced the weekly testing time using automation, as compared to the manual process
- Ensured thorough test coverage using test script automation for platforms including customer's main application, Microsoft Azure portal and API
- Delivered quality releases with early discovery of defects due to executions

- Developing Hybrid Automation Framework to automate UI, API, Microsoft Azure Cosmos DB, and Microsoft Azure Storage account using Selenium WebDriver.
- Integrating Selenium Automation Test Suite with Microsoft Azure DevOps management tool to update the execution status of test cases in the test plan.
- Fetching all the sensitive data like credentials & authentication keys from Microsoft Azure Key Vault into the framework.
- Scheduling job on Microsoft Azure DevOps to execute the test cases on pipeline and implemented code coverage report for the framework.

Technology Stack

Microsoft Azure Cosmos DB | Microsoft Azure Storage | Selenium WebDriver | Selenium Automation Test Suite | Microsoft Azure DevOps | Microsoft Azure Key Vault

Xoriant is a product engineering, software development and technology services company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite, and offshore services from our 17 global offices with over 5500+ software professionals. Xoriant has deep client relationships spanning over 30 years with various clients ranging from startups to Fortune 100 companies.