



Mobile Automation for a Leading e-Learning Giant

Client

Client is a leading technology and education company catering to the spheres of K-12, higher education as well as professional, with a presence around the globe. The Client caters to students, employees, educators and librarians as well, as they venture into workforce training and library markets worldwide.

Engagement Model

Onshore and Offshore

Challenge/Scope of Work

QA InfoTech has a history of engagement with the Client for catering to their testing requirements on a web version. However, the Client witnessed roadblocks in accessing the application on hand-held devices while launching it through the browser of the device. Issues including truncated information, overlapping of content, keyboard and typing issues, zooming in and out on the inbuilt pictures and videos, etc., were a few out of the many due to which the Client shifted to a mobile application and reached out to QA InfoTech for mobile automation testing.

Solution

QA InfoTech helped the Client in strategizing and performing a comprehensive test coverage by mobile automation testing. Since the Client faced a number of issues in terms of the application crashing across devices, variant network abnormalities, etc., QA InfoTech helped them by a robust preliminary R&D around their project's requirements and various automation tools that could be used. Appium was consequently selected as the most viable open-source automation tool for mobile automation testing. Being a highly flexible tool that provides cross-platform support as well, Appium seamlessly integrates with CI and CD tools like Jenkins, Git, etc. and supports both real devices as well as simulators.

Test Strategy

The end-to-end test strategy that followed, incorporated different screen devices and different OS combinations. A synthesized testing approach of automation, in-sprint automation and regression testing was undertaken by the QA team. As a robust test strategy, the QA team:

- Supported more than 2000 test cases on a single platform and more than 8000 test cases on a combination of mobile operating systems and real devices.
- Conducted the testing approach from the unit level wherein, most of the static aspects were covered including images, static text, static UI, etc.
- Created a UI automation suite that followed a single script on both OSs, Android and iOS. This was attained by working with the developers in putting an Accessibility ID into the app source code to make it standardized across Android and iOS.
- Adopted a hybrid testing framework that helped support desktop web, mobiles, simulators, etc., remotely.

Thus, the test strategy was extensively designed to support multiple device combinations across multiple platforms. This was made possible with the help of the Client in purchasing the Browserstack license. This helped in testing the application across a number of real devices as well as simulators and emulators.

Value Proposition

QA InfoTech leveraged its inclusive mobile automation solution for meeting the Client's requirements. With our solution:

- Release cycles were reduced to 4 days from a week as a vigorous automation test strategy was adopted with a test coverage of 65%
- Around 1400 test cases were automated from an initial 2000 as a standardized UI automation suite was incorporated into testing at the unit level, services level and the UI level, helping in identifying breakdowns at an early stage and reducing the number of test cases
- The Functional team focused particularly on the new features based on the devices, OS, environment, and hardware configurations, making the process faster and reliable

Thus, QA InfoTech assuaged the Client's pain points by conducting a thorough automation test coverage which was effective, reliable as well as economical.

About QA InfoTech

At QA InfoTech we specialize in providing independent software testing and unbiased software quality assurance services to product companies, ranging from the Fortune 500 to start-ups. Established in 2003, with less than five testing experts, QA InfoTech has grown leaps and bounds with its Five QA Centers of Excellence globally; located in the hub of IT activity in India in Noida and Bangalore and our affiliate QA InfoTech Inc. in Michigan and Bentonville, USA.

- 1400+ QA engineers and domain experts
- An ISO 9001:2015, CMMi Level 3, ISO 20000-1:2011 and ISO 27001:2013 compliant Company.
- Thought Leaders in E2E testing, specifically in Test Automation, Performance Testing, Localization and Accessibility Testing

In 2017, QA InfoTech has been ranked in the top 100 places to work for in India. We are amongst the top 50 Best IT & ITeS Companies To Work For in 2012, 2014, 2015 & 16 in India. For more details, please refer [to our blog on this event](#).

“We assure the highest degree of Excellence and Accuracy in our engagements. Once you have placed your trust with us, rest assured we guarantee an elated peace of mind”

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