

# Selenium Test Automation for Web and Mobile based Application

## Objective

Our client works in the outdoor advertising industry, was facing issues in time to market for each feature and releases of its enterprise product. Their core application that was evolving day by day and had multiple version releases every week with new features and change in current features. Due to multiple product changes, there was a high risk involved to solve the new and existing issues found in the working functionalities. Sanity testing was not the right approach for testing the product. To ensure delivery of rapid and smooth releases without major impacts in existing product, the client was looking for a reliable Automation testing provider. Rishabh Software was appointed as their QA, testing & application development partner.

## Challenges

- › High script maintenance
- › Poor/ Variable response times
- › Manual testing of multiple releases
- › Lack of automation framework to execute testing

## Approach

The testing team at Rishabh Software studied the client's existing system & release model. One of the key observation made was that a hybrid testing framework was required to build using Selenium and execute automated testing for the web & mobile applications.

The client requirement and the current workflow followed was

- › Design the automation framework for web & mobile application
- › Selenium web driver was used to create scripts for front end application
- › The client was using git as central repository all the scripts were to be linked to the repository for future reference
- › Create automated job for scheduling to execute some test cases every day

We implemented the testing framework which delivered Page object model approach to maximize re-usability, data driven approach to test functionality with different sets of data, custom HTML reporting with both web and spreadsheet format, automatic email delivery of execution report on completion, TestNG framework for test suite execution, parallel execution and integration with Jenkins and a cloud based testing for mobile (using Test object) for parallel execution of test suite on multiple devices.

## Business Benefits

- › 800+ Test cases, which includes 200+ closed live issues, executed in minutes through automated testing solution
- › Test Object for testing mobile application on cloud and parallel testing on cloud
- › Executed automation test scripts without any human intervention, with improved test result and reporting mechanism
- › Improved Quality of Service (QoS) by providing better services through automation

## Industry Segment

Outdoor Advertising, Digital Enterprise

## Customer Profile

A leading outdoor advertising company in the world serving global brands and specializes in advertising street furniture, large format billboards and advertising on public transport.

## Technology and Tools

- › Selenium Web Driver
- › ZCron
- › TestNG
- › Appium
- › Android
- › iOS

## About Rishabh Software

Rishabh Software provides software services and solutions to mid-sized enterprises globally through our offices in the US, UK and India. We leverage the latest technology stacks in Cloud, Mobile, Business Intelligence and other Enterprise technologies helping clients to get the best value of their IT budget. With our team of 150+ software developers, we have implemented 220+ successful projects across 22+ countries. Our process-driven approach has helped Rishabh to achieve CMMI Level-3, ISO9001 and ISO27001. Our team works on .NET, Java, PHP, iOS, Android and others technologies. We are a certified Microsoft Gold partner.



[www.rishabhsoft.com](http://www.rishabhsoft.com)

[sales@rishabhsoft.com](mailto:sales@rishabhsoft.com)

US: +1 877 747 4224

UK: +44 207 993 8162