



THREESIXTY LOGICA TESTING SERVICES



CLOUD BASED SERVICES AND MOBILE APPS

CLIENT

Our US based client provides cloud-based services and mobile apps to help authors, create, publish and share multi-media interactive content. Currently targeted at educators who have a need for simpler tools to share lesson plans as well as at students to collaborate and submit school projects. The service simplifies the process of content authoring, layout, and publishing which can benefit any author, or group of authors, who want to self-publish their content; the service also allows the packaging of the multi-media content in eBook format.

APPLICATIONS AND REQUIREMENTS

1. POC to search tools to cover maximum scenario of application.
2. Automation bookmarks for validation of Data in DataGrid, Graph, Tooltips etc and also validate bookmarks data by exporting run time with saved data set.
3. Automation of defects logged into the Lotus defect tracking tool.
4. Setup report to access using URL with in network.
5. Setup automation test suite with Jenkins for nightly build execution.
6. Configuration of email for notification of execution.
7. Test suite should execute after RDC machine close.

APPLICATIONS AND REQUIREMENTS

APPLICATIONS

1. Cloud-based Collaboration & Content Management for Teachers and Students.
2. Gain new flexibility to design interactive, engaging lessons easily and quickly.

REQUIREMENTS

1. Regression testing on Web app and Canvas app
2. Test cases and Test script writing
3. iOS and Android app testing

TOOLS AND TECHNOLOGY

1. Automation Tool: Selenium WebDriver
2. Framework: TestNG
3. CI tool: Jenkins
4. Other tool: Sikuli
5. Language: Java

CHALLENGES FACED

We faced following challenges while working on the existing automation framework:

1. Existing framework was designed to store screenshots of all screens that make reports bulky.
2. Many methods were placed inside the single try catch block without proper comments/notations and generalized error message displayed on failures. Thus making it hard to identify the root cause of the failure.
3. Unwanted Robot class and Thread.sleep() were used in automation script which results in increase in execution time.
4. All the methods used in automation framework were placed inside single java file that increased code complexity and made it difficult to understand the flow.
5. Unable to setup framework in Linux machine due to MS Excel file used to provide configuration setting information.

PROCEEDINGS AND SOLUTIONS

1. We modified all the existing test scripts provided to us by automation team.
2. We ensured proper and customized error message should be displayed at script failure highlighting the root cause of the failure.
3. Eliminated unwanted sleep and robot methods and used Selenium inbuilt functions.

4. Used Sikuli tool for handling images and window popup.
5. Created automation framework so that we could setup on Linux and Window both the environment.
6. Integrated with Jenkins CI tool for scheduling test script execution.

ADVANTAGES OF THE TOOLS USED

JENKINS:

- i. Reduced manual effort by scheduling script execution.
- ii. Each script can run/execute individually.
- iii. User stack holders can easily monitor execution results and status from Jenkins web portal.
- iv. Jenkins can send execution report for every unstable build to the client and responsible person via email.
- v. We can easily integrate Jenkins with the source code repository like (SVN, Git, Bitbucket etc), that reduce manual effort.

HYBRID FRAMEWORK

- i. Automation framework can be easily optimized as per client need.
- ii. Automation framework can be easily integrated with the compatible third party tool like Sikuli and Auto IT.

BENEFITS TO THE CLIENT

1. Save time and money involved in Regression Testing.
2. After script execution, client received a status report in html format via email.
3. Client could focus their attention on the concern areas by analyzing execution reports.

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