CASE STUDY - TEST AUTOMATION

About the Client:

The client works at the intersection of blockchains, machine learning and mechanism design to enable economic networks. They have developed 2 platforms.

One of the platforms is a Blockchain & AI based, cloud hosted solution for organizations to integrate their business networks. This platform incentivices adoption by every organization in an economic network to reduce transaction costs & improve market efficiencies.

The other platform is an exclusive, invitation-only platform for Brands to create NFTs for their fans, followers & connoisseurs. As the first platform to accept INR payments and support e-KYC, it enables brands to create credible NFTs and engage with their fans & customers.

Goal:

The essential goal of Shravas Technologies team was to provide robust Test Automation for their business flows and design the Test automation framework for their leading blockchain applications using Selenium/Java tool along with helping them with CI/CD Integration and reporting.

How Shravas Technologies Helped:

- Understanding Blockchain domain and studying their 35+ business flows.
- Designing clear manual test scenarios on the agreed flows to help them automate.
- Classify the test cases into simple/complex functional test scenarios. Mark not automatable and not worth automating cases.
- Develop Automation Framework for the project – write re-usable cases, domain specific procedures, reporting, emailing and integration with Jenkins CI/CD process.
- Implement test scenarios, unit test the project.
- Execute the test automation and send periodic reports.
- Report bugs found during the process and verify them once they are fixed.
- Develop automated Smoke test and Regression test suites.
- CI/CD Integration using Jenkins server.
- Automated daily execution report to the management
- Continuous follow ups on issues/concerns with the client through daily/weekly meetings and status reports.
- Training the client QA staff on the automation project.
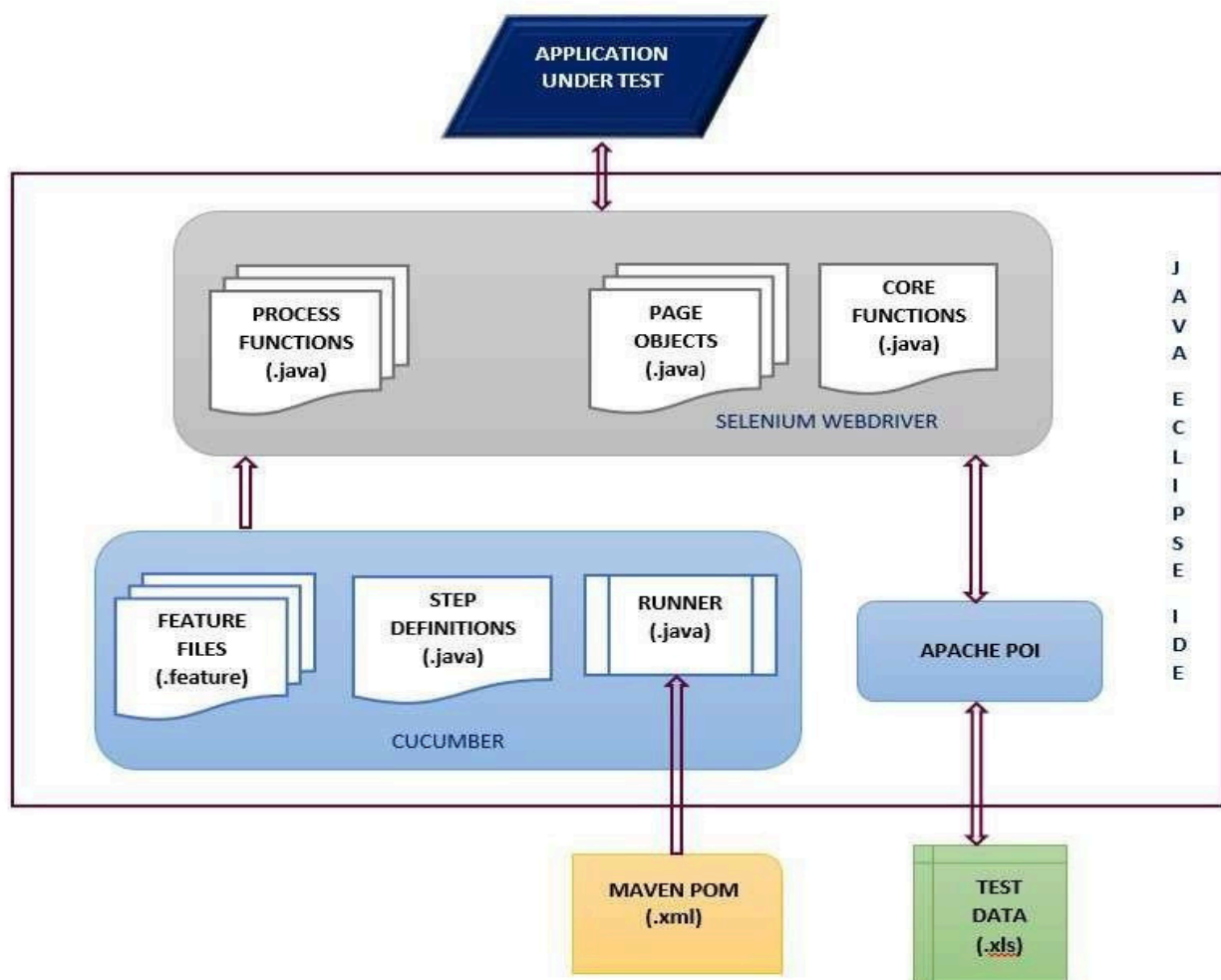- Handover of project to the client.

Technology:

- **Framework:** Cucumber with POM model
- **Automation Tool:** Selenium with Java
- **Continuous Integration Tool:** Jenkins
- **Reporting:** TestNG / Extent reports
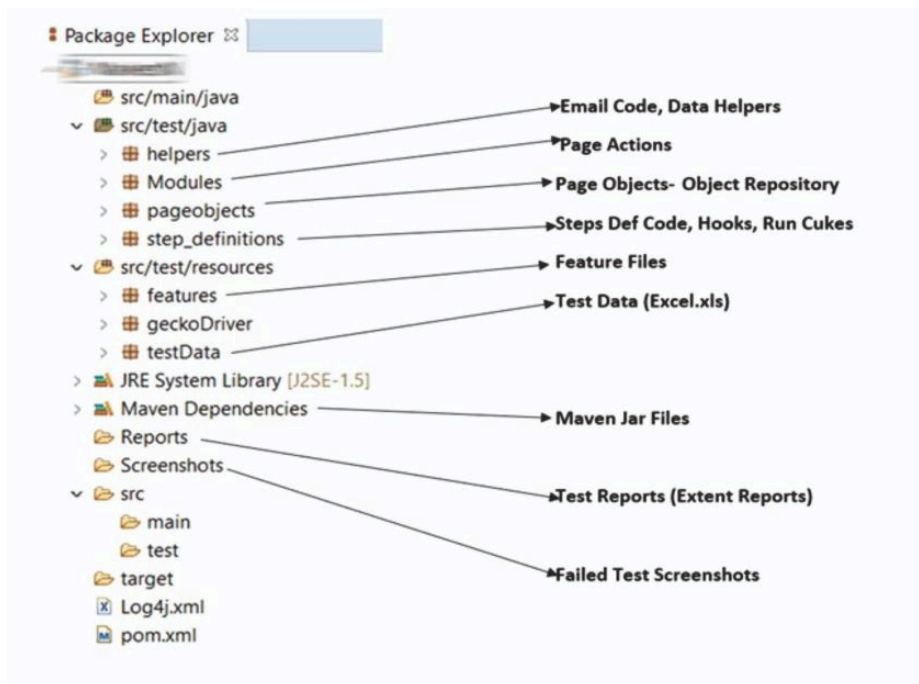- **Bug Reporting:** Jira

Test Deliverables:

- Manual test execution Report
- Reporting bugs and observations
- Selenium/Java Automated test Execution Report
- Cucumber framework
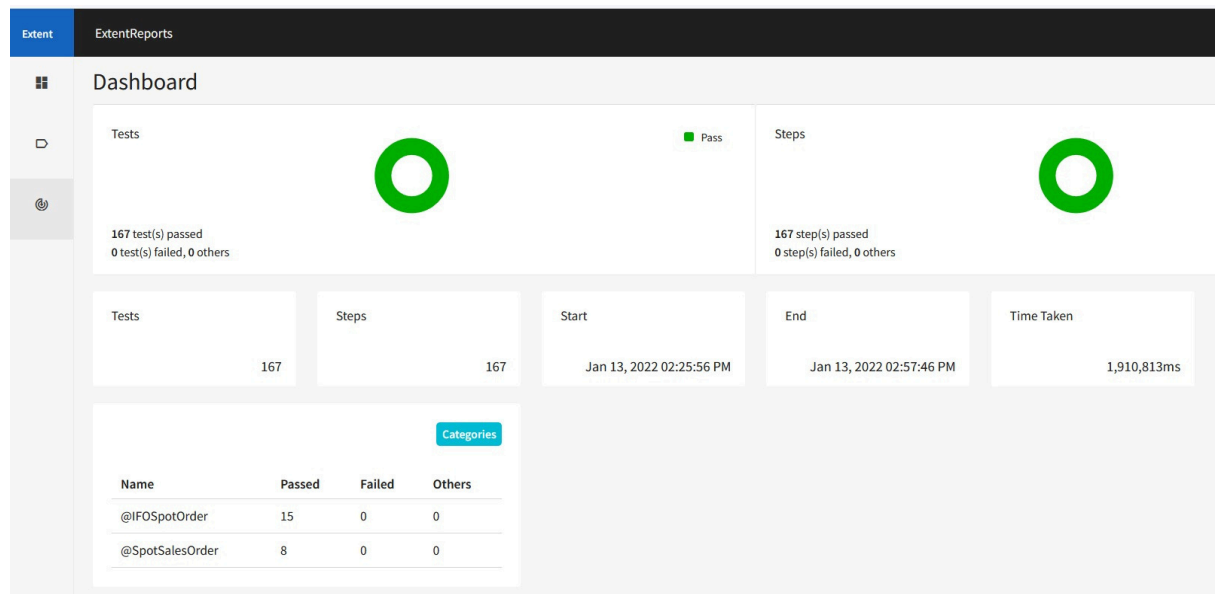- Selenium-Java Project with agreed test scenarios implementation.

Cucumber Framework Architecture:

Framework Folder Structure:

Reports:

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