Business White Paper

Test Automation Services

Enhancing Efficiency and Quality in Software Testing

By Shravas Technologies

Shravas
TECHNOLOGIES
Delivering Excellence Through Passion

Definition and Importance

- Test automation services offer a powerful way to enhance software quality, improve efficiency, and accelerate time-to-market.

- Shravas follows best practices in leveraging the right tools and strategies, organizations can reap the full benefits of test automation and achieve their quality goals.

- With expertise in industry-leading automation tools, we provide reliable test automation solutions for mobile, web and desktop applications that improve efficiency, increase test coverage, and accelerate release cycles. Reduce the manual effort, eliminate human errors, and enhance software quality with our automated testing services.

Guidelines followed for Automation

- Full time dedicated resources

- Well-articulated test framework

- Application independent test framework

- Development of common components for different applications

- Module independence

- Framework independent test strategy/design vocabulary

- Clear demarcation between test framework designers and Automation team.

Overcome your Test Automation challenges

- Shravas Test Automation Framework (TAF) is a tool-agnostic, platform-independent testing solution for automating and validating complex business processes in a variety of sectors. We work with several popular commercial and open-source test tools.

- TAF components assess, refactor, and augment your existing automation testing frameworks & test suites and help you overcome the:

- Inability to choose the best suited test automation tools.

- Lack of pre-built automated test suites and a team of scripting experts.

- Migration challenges while modernizing legacy automation scripts.

- Lack of expertise in automating regression tests.

Technologies:

- 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
- Base Automation framework
- Agreed test scenarios implementation
- Maintenance and Support for limited period.
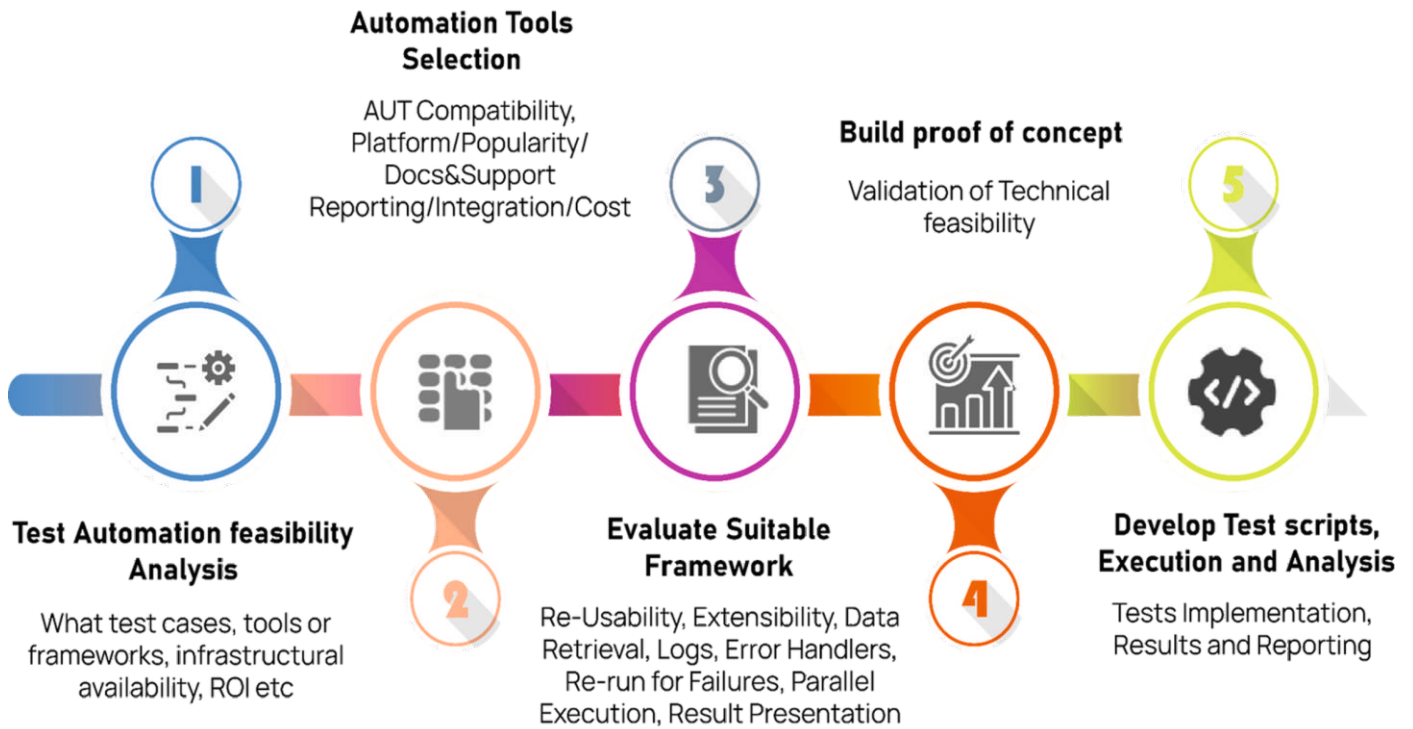
Domains:

- Financial Services
- Blockchain
- Healthcare
- Cryptocurrency

Strategy

- Study and understand End-to-End functionality of the Web Application.
- Divide the workflows/modules into sub-modules, simple and complex functional test scenarios.
- Test Cases review and baselining.
- Mark not-automatable and not worth automating cases
- Develop Automation Framework, write re-usable and domain specific procedures and report module.
- Implement test scenarios, unit test the project.
- Execute the test automation and make updates if required for any issues/stability.
- Report any bugs found during the process and verify them once they are fixed.
- Make delivery in multiple phases, one after each workflow automation completed, if required.
- Train the client team on how to execute and take reports.
- Maintenance and support for limited period.

Technology and Tools

Automation Tools Selection

AUT Compatibility, Platform/Popularity/ Docs&Support Reporting/Integration/Cost

Build proof of concept

Validation of Technical feasibility

Test Automation feasibility Analysis

What test cases, tools or frameworks, infrastructural availability, ROI etc

Evaluate Suitable Framework

Re-Usability, Extensibility, Data Retrieval, Logs, Error Handlers, Re-run for Failures, Parallel Execution, Result Presentation

Develop Test scripts, Execution and Analysis

Tests Implementation, Results and Reporting

Success Story

- Company: **MarketsN**
- Project: **KoinEarth**
- The client platforms is a Blockchain & AI based, cloud hosted solution for organizations to integrate their business networks. Shravas Technologies team provided a 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.

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