



# Regression Automation

Largest commercial bank in Saudi Arabia

## CHALLENGE

- Revive the existing Automation Regression Test suite for the 3 major tracks.
- Scripts were not maintained for around 2 years.
- Overall Automation suite health was less than 15%. More than 85% scripts were failing due to application change, obsolete test data etc.
- Automation team was new to the domain.

The client wanted to revive Automation test suites for 3 major tracks that were not maintained for 2 years. Client wanted regression testing of these tracks to be fully automated. Also, they wanted the QA team to support multiple releases in different environments in a single day.

**54%**  
Reduced  
Execution Time

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## SOLUTION

### Automation Suite

- Completed reviving 893 testcases across 3 tracks.
- 80% Automation coverage was obtained.

### Best Practices

- Scripting pattern & reusable util packages were implemented for robust batch execution.
- Programmatic logging of execution time, with module wise reporting, for effective orchestration of test suites across nodes.

### Support & Manage

- Release & deployment support for multiple tracks in various environments
- Implementation of Smoke suite and P1 suite to support earlier build validations.

## RESULTS

- 36% of effort saving was observed when executed in single node.
- With parallel execution using 4 nodes, effort saving increased to 54%.
- Achieved build and deployment automation for multiple releases in a day.
- Test Data Automation was also implemented, which entirely removed the manual dependency of Test Data creation, before a release execution.