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Current scenario

In the current scenario, the ANZ on-boarded employees run through multiple roles in a day, wherein the roles statuses change based on the eligible courses are completed. It is very tedious job to track the list of roles tagged by an employee in a day.

To Overcome this huge manual efforts, We recommend Test Automation to execute the above repeated steps in a single script.

Reduces lot of manual efforts and saves time to the user.

Automation scope

*The scope of the IIQ application automation is to automate different roles of the ERBAC system, where it validates schema details against parameters of the application in the system.*

*Ex:- Rolenames are*

*ABN - Branch Manager (RBI Tier 2)*

*ABN – Branch Manager (LOCAM)*

Automation framework

The framework is developed using the below software products,

1. *Cucumber – is a Test automation tool written in Gherkin format to support Behavior driven development.*
2. *Selenium WebDriver – creates browser based robust automation test scripts.*
3. *TestNG – is an Open source automation framework for Java.*
4. *Java Jars – to support the entire framework with an integration of Java jar files.*

*BDD Cucumber Framework:-*

*Feature file* – is an entry point to the Cucumber tests, which it contains scenario/scenarios in a single feature file.

*Step Definition file* – contains a piece of code with a pattern attached to it.

*TestRunner file* – is a file that executes the feature file and writes the test results in console.

*Testng.xml file* – is a configuration file in TestNG, which is used to define test suites and tests.

Benefits

This framework is scalable to append other parameters as well of the Role Management.

**Reusability of Automation Tests** – The same feature file can be executed multiple times for different Role names.

**Faster Feedback** – The script executes quickly and provides status of the Role Management functionality.

**Testing Efficiency Improvement** – The script thoroughly checks all the parameters and its values of the schema against to application in the system.

**Earlier Detection of Defects** – This framework helps in identifying the defects at earlier state of validating the results.

Finally, it saves lot of time and gives more benefits to the user by executing this framework and scripts.

Executin steps and repots

Test Script execution:-

Right click on testng.xml file and chose Run->TestNG Suite option.

Test Reports:-

test-output->emailable-report.html, index.html, Extent report.

Logs:-

Console output can be verified in this file.

Screenshots:-

Capture screenshot for unmatched results automatically.

Future opportunities

Jenkins setup for Continuous Integration & Continuous Deployment.

Support Parallel Testing in both Standalone and Virtual Machines – Selenium Grid/Docker etc.

Maven Integration setup with advanced Reporting plugins & Tracking the script execution logs.