Trading Certificate API Automation

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# 1.Application Requirements:

1. SOAP UI
2. JMeter
3. SQL Server Management Studio
4. POSTMAN (for Manual verification of responses)
5. Java 1.8 or above version
6. Apache Maven 3.6.3 version

# 2.Once installation is done kindly follow below process for project setup and execution:

1. Open SOAP UI tool
2. Click on File->Import Project
3. Select the project (.xml file)
4. Click on Open

Your project is ready for execution via SOAP UI

# 3.To Execute single test case via SOAP UI tool follow below procedure (if test case is disabled):

1. If test case is disabled, right click on the Test case
2. Click on Enable Test Case
3. Open Groovy Script
4. Click on Green button Displayed on left top side of the script
5. Check console for result verification

# 4.To Execute single test case via SOAP UI tool follow below procedure (if test case is Enabled):

1. Open Groovy Script of Test Case
2. Click on Green button Displayed on left top side of the script
3. Check console for result verification

# 5.To run the Test Suite (for execution of all/any enabled Test case)

1. Right click on Test Suite
2. Click on Launch Test Runner
3. Click on Launch button to execute the test case

# 6. To verify the result generated by scripts 1. Test Data folder

In Test Data folder you will see the result generated by SQL query and Also result generated by the API responses

2. Results Folder

In this folder you will see the comparison between SQL result and API responses and in last column of the excel you will see whether test case is passed or failed.

# 7.To run the script with Batch file

1. Go the the folder C:\APITesting\TradingCertificateTesting
2. Double click on MvnRun.bat
3. Once command prompt window is closed it will generated results into the above mentioned folders
4. To verify the logs of execution you can refer to below files generated at C:\APITesting\TradingCertificateTesting location
   1. global-groovy.log
   2. soapui.log
   3. soapui-errors.log

# 8.To Implement the new script for Get Method

1. Create the REST service give valid name for that service (mostly as per the name of API)
2. Create test case under test suite and also give valid name for that test case
3. Create test step as Rest Request for above test case and give valid name
4. Create test step as groovy script and give valid name
5. Now prepare the code in groovy and java for testing

# 9.To Implement the code in groovy test API testing

* Import the required libraries
* Create connection with SQL database and prepare the query
* Get the result for SQL query and story the column values into variables
* Store those values into csv file
* Get the token and set that token as parameter at test suite level
* Get the attribute which is required as parameter into URL for get request
* Set that parameter into test case level
* Send the request for get request by ta]king one single parameter to trigger the API request
* Get the API response
* Parse the response
* Take each parameter value of API response into variables and store into csv file as well
* Take each parsed response and compare with SQL values
* Store the comparison result into csv file