

Pega Rule Impact Test Accelerator Tool

- Hand Book

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Objective

To use the PRITA tool for Pega Scenario Test and Pega Unit test.

Tool Setup Overview

Framework Used

- React JS – To build the User Interface (UI) of the tool.
- Node JS-Express JS is used to build the server for the UI.
- Netlify is used to host the application.
- Page Object Model, Data Driven, TestNG, Cucumber, BDD.
- Eclipse IDE

Build Tools Used

- Maven Project – POM.xml file is used to declare all the properties for selenium code.

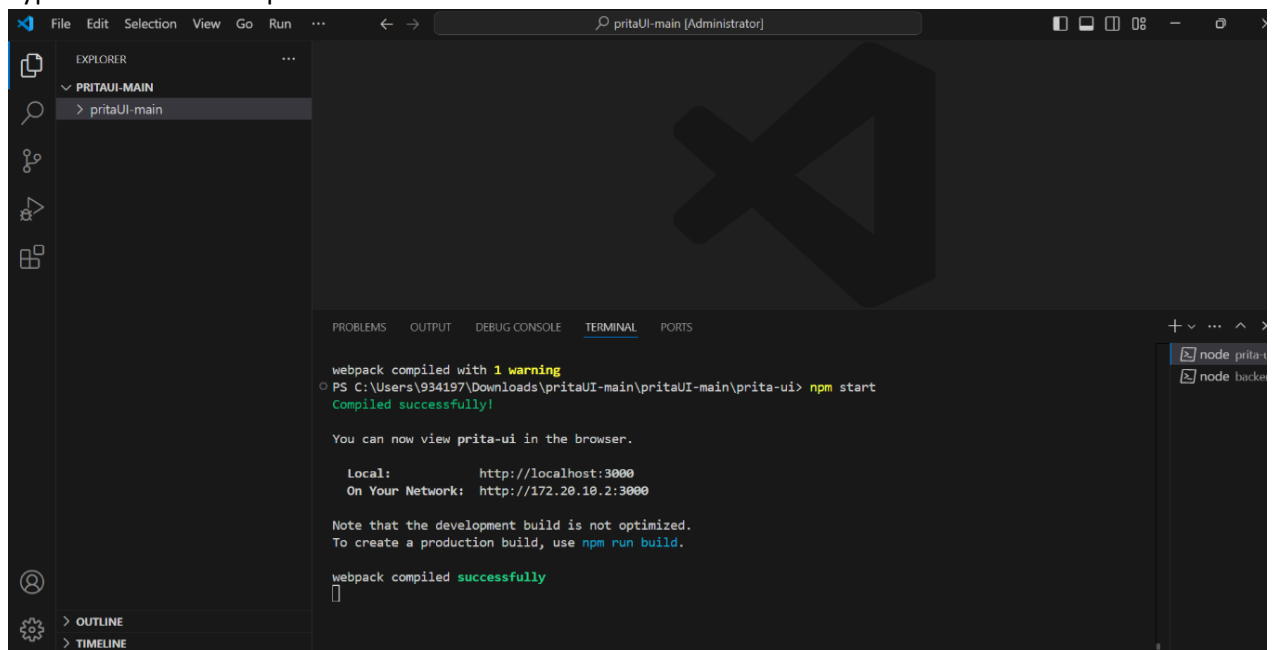
Tool Setup

Pre- Requisites

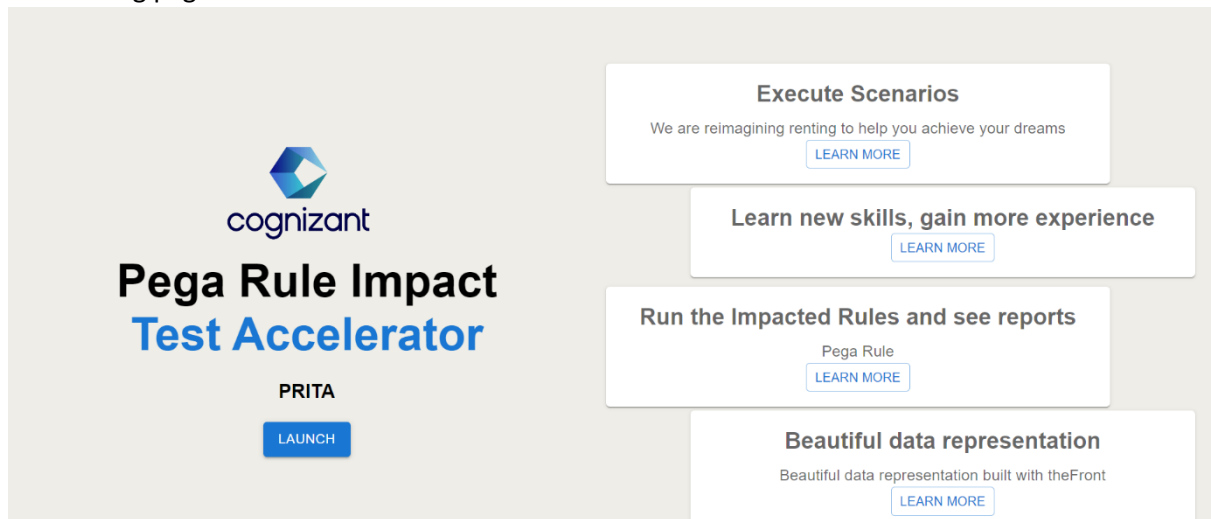
- Java JDK & JRE should be installed in the system.
- VS Code (When used as a standalone)
- Node JS Configured with React JS (To host the live server)
- Network Connection should allow any download as required while building the project.

Project Setup

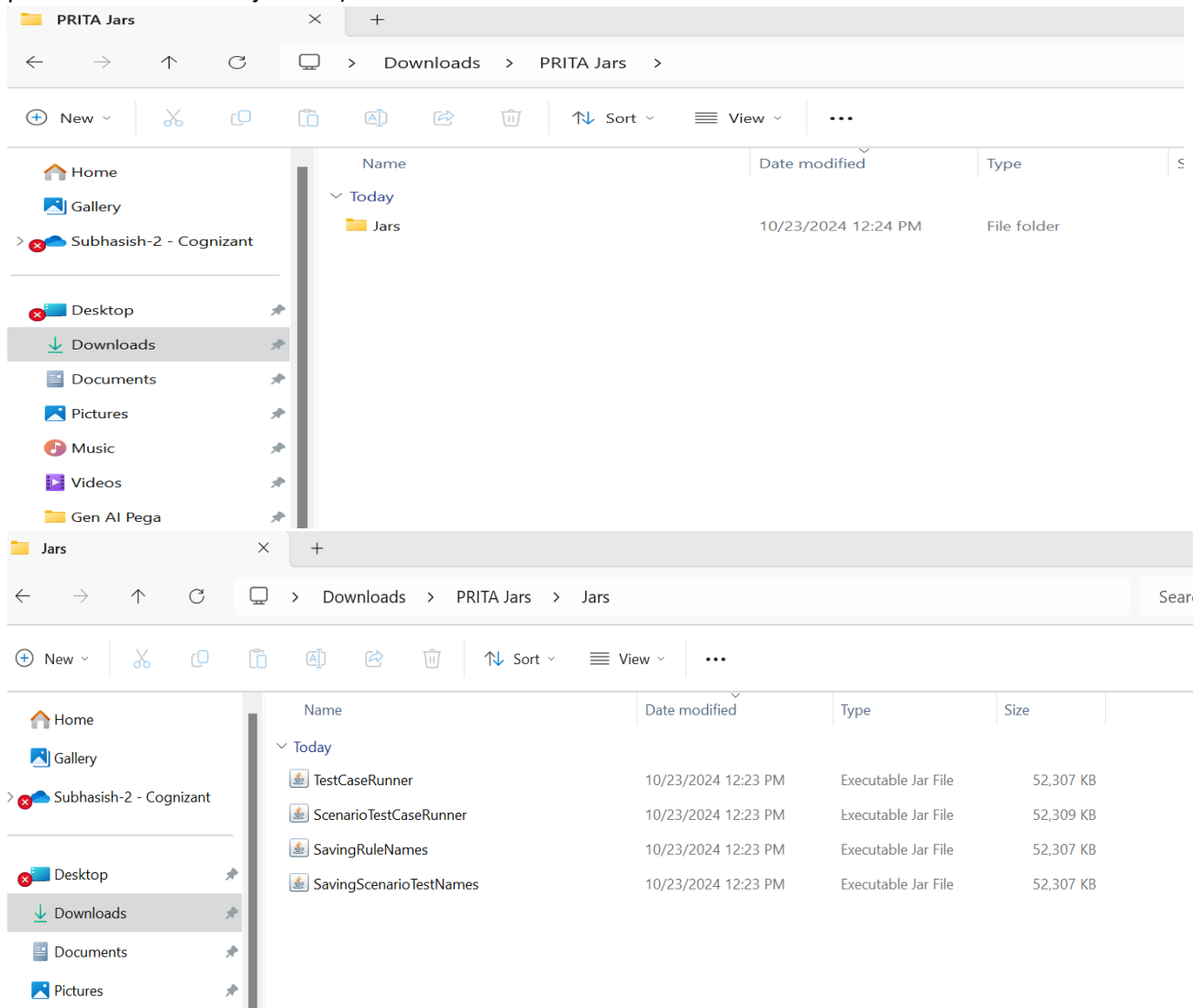
- Import the PRITA tool in the IDE (VS Code).
 - a. Download the framework in the local machine.
 - b. Open IDE and import the project from local.
- Setting up the framework.
 - a. Open the terminal in VS Code and go to the root folder of the framework using the command “cd <path of the root folder>”
 - b. Type the command ‘npm start’ and hit enter to host the website in local.

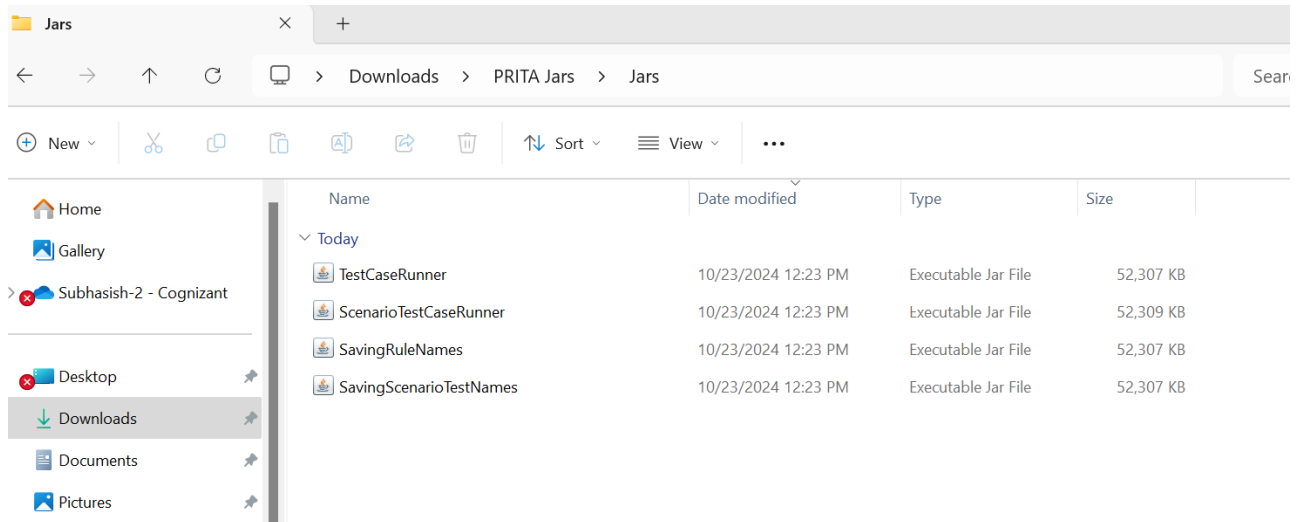


- c. The landing page is launched once the website is hosted in local.



- Setting up the Jar Files
 - a. Place the jar files in your local (Preferably in downloads folder as most of the cases this folder has the permission to execute jar files.)

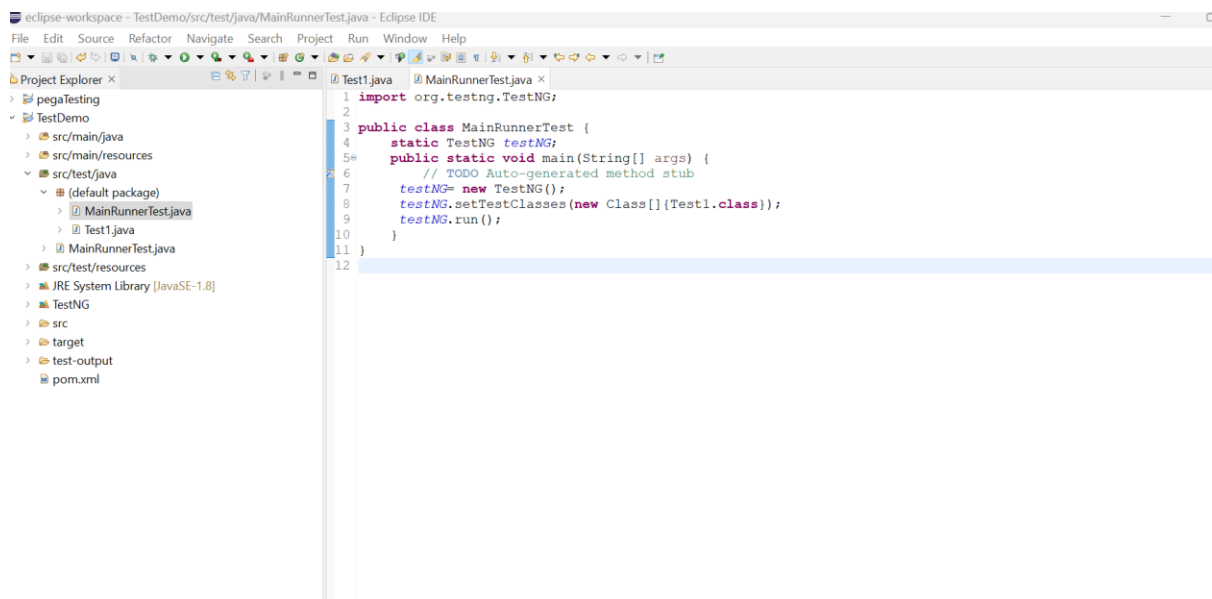




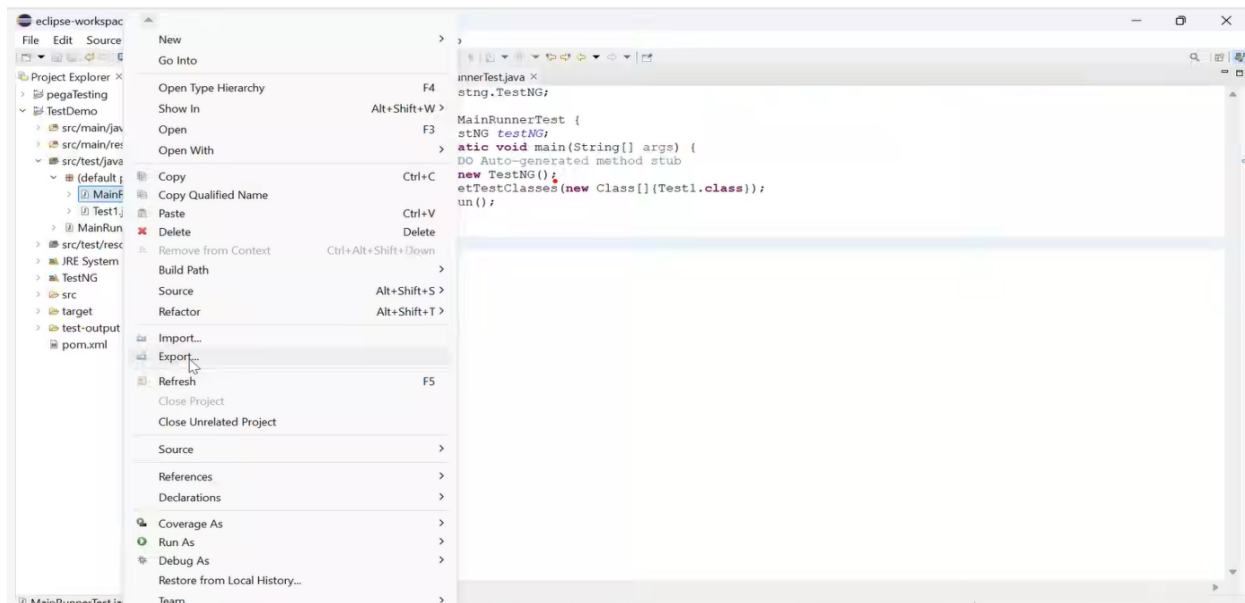
b. [Need to configure this Jar path through “Configure Jar” path button of the tool]

Converting Selenium Code to Jar

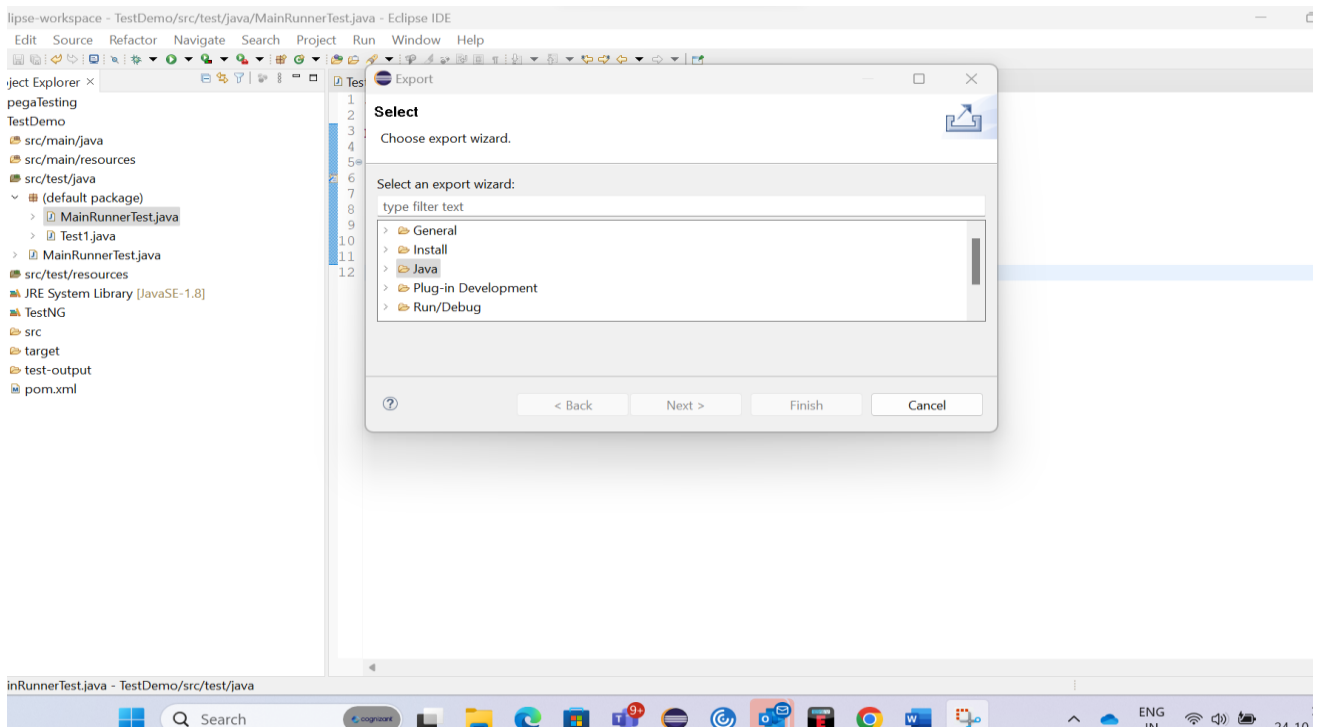
- Go to MainRunnerTest.java file under src/test/java, pass the class name that needs to be converted to jar file as argument in the command `testNG.setTestClasses(new Class[]{Class_Name.class})` and save the file.

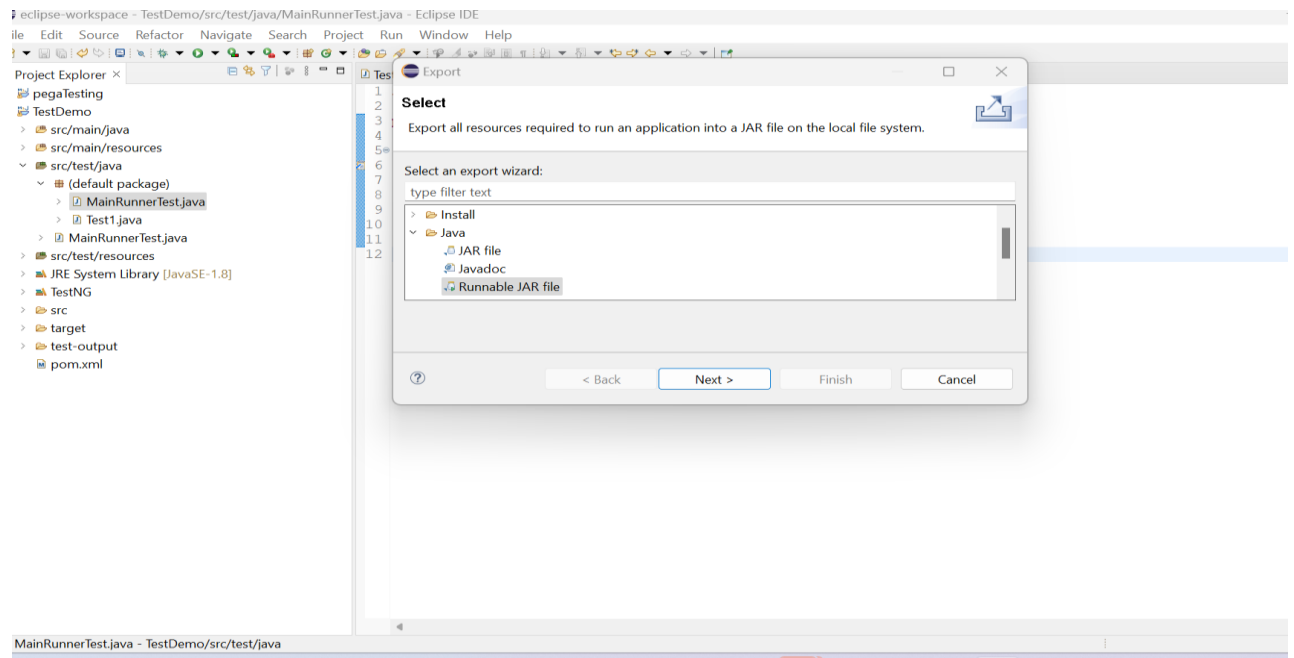


- Right click on MainRunnerTest.java and click on Export

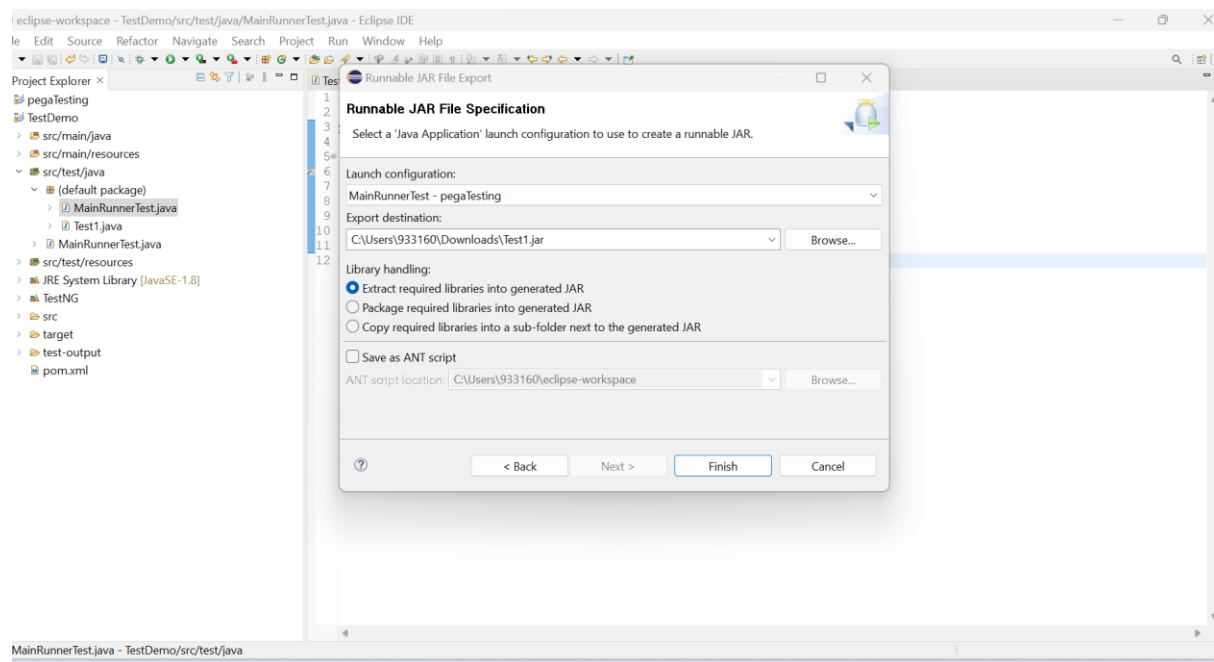


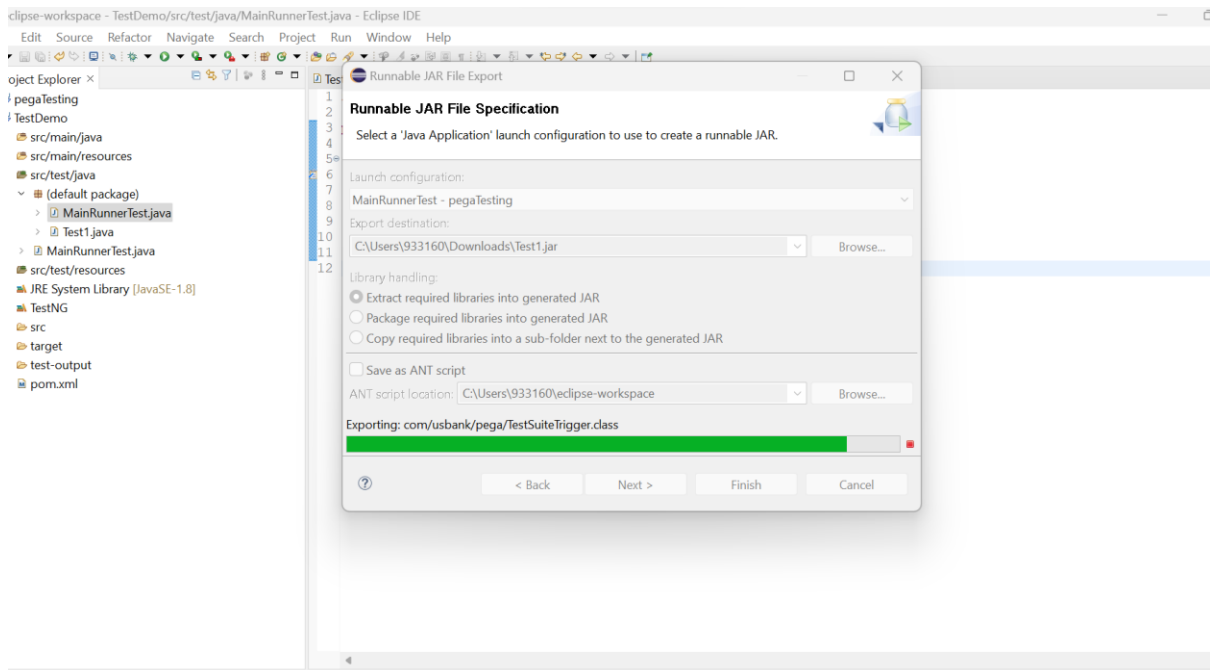
- Expand the Java folder under Select an export wizard and click on Runnable Jar File and then click on Next.





- Click on Browse and select the path to save the jar file and then click on finish.



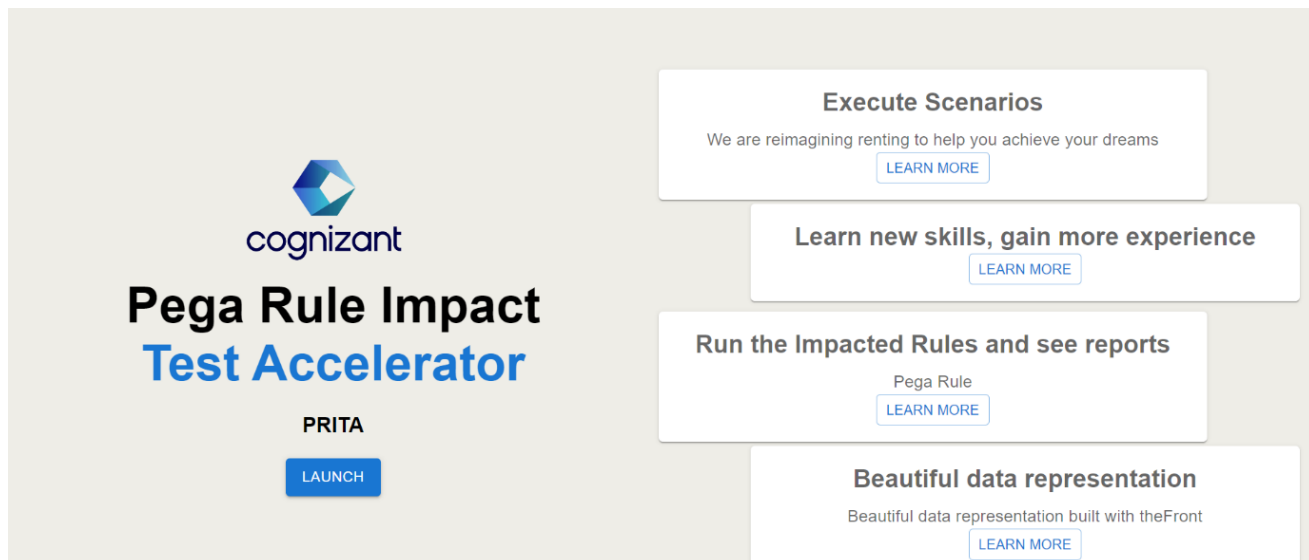


- The jar file has been created under the designated folder:

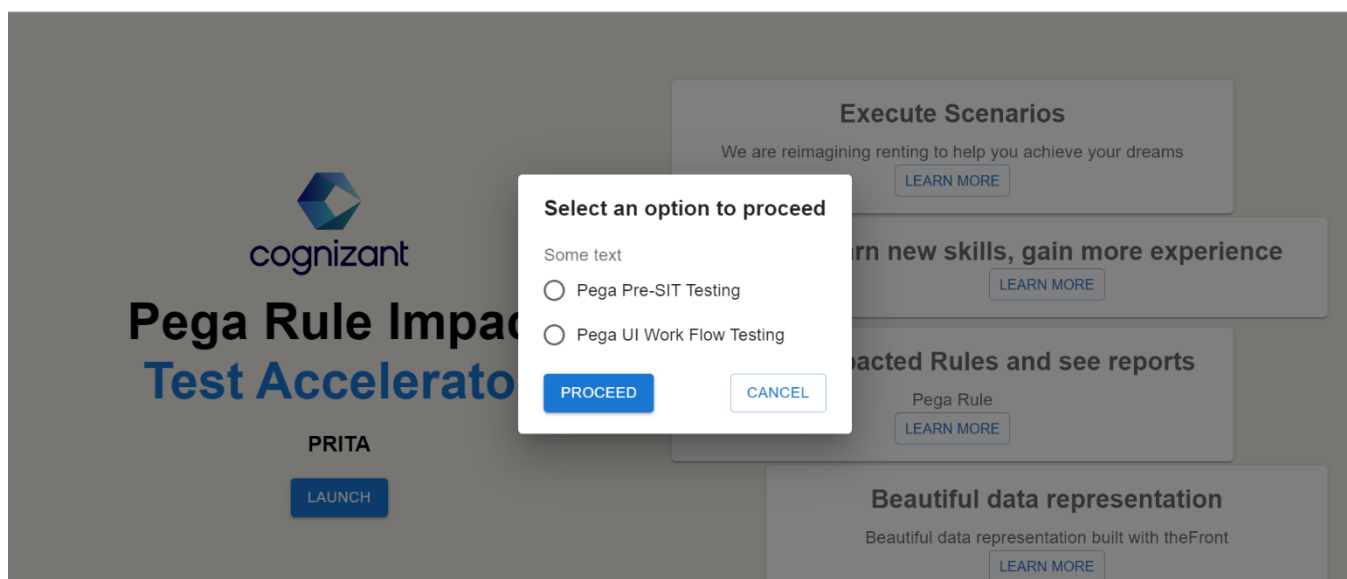
Desktop	pegaTesting 9 (1)	10/24/2024 1:13 PM	Compressed (zipped)...	156 KB
Downloads	Jars	10/24/2024 1:35 PM	File folder	
Documents	pegaTesting 9	10/24/2024 1:14 PM	File folder	
Pictures	Yesterday			
Music	PRITA	10/23/2024 5:14 PM	File folder	
Videos	Earlier this month			
	SavingRulesName	10/3/2024 3:17 AM	Executable Jar File	52,307 KB
	object	10/3/2024 3:17 AM	Properties Source File	6 KB
	jdk-8u202-windows-x64	10/3/2024 3:11 AM	Application	216,653 KB

Working With the PRITA Tool

- Click on the launch button.

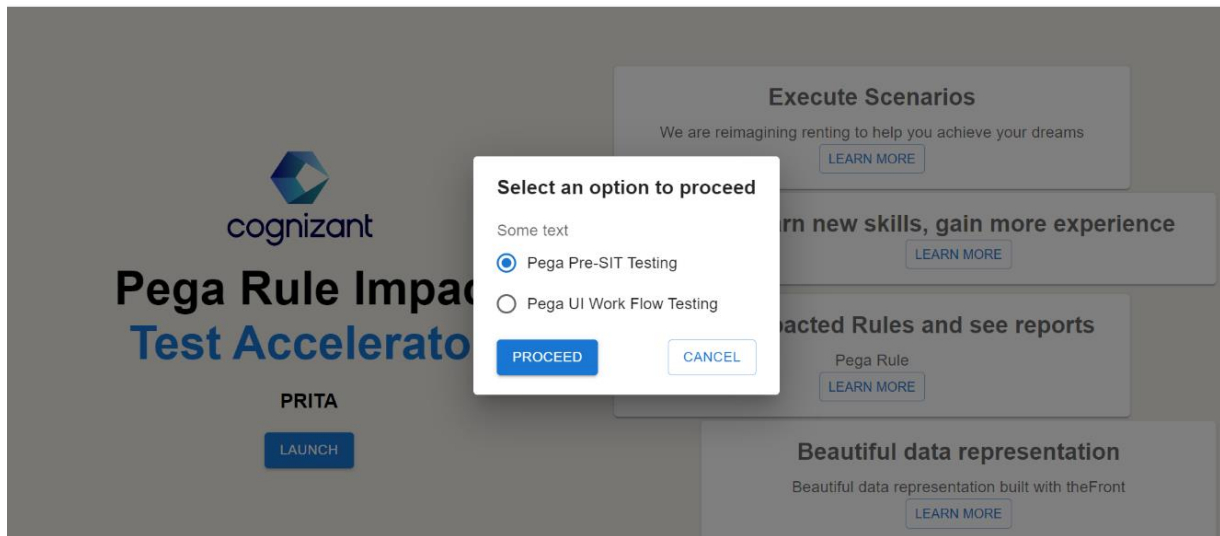


- On launching the tool, it will show two options, Pega Pre SIT Testing and Pega UI Workflow Testing

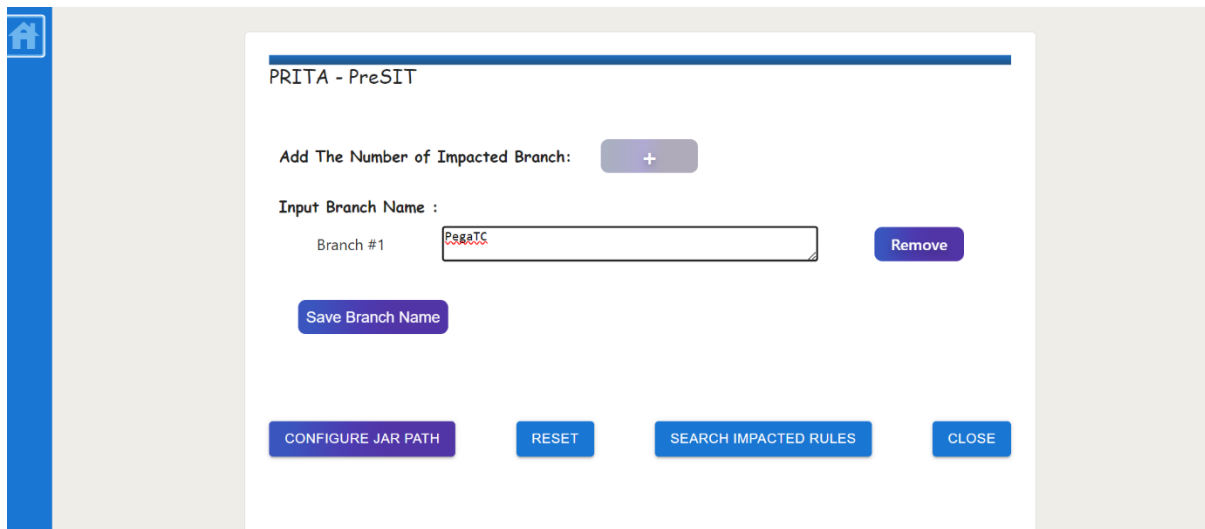


Executing Pre-SIT Test Cases

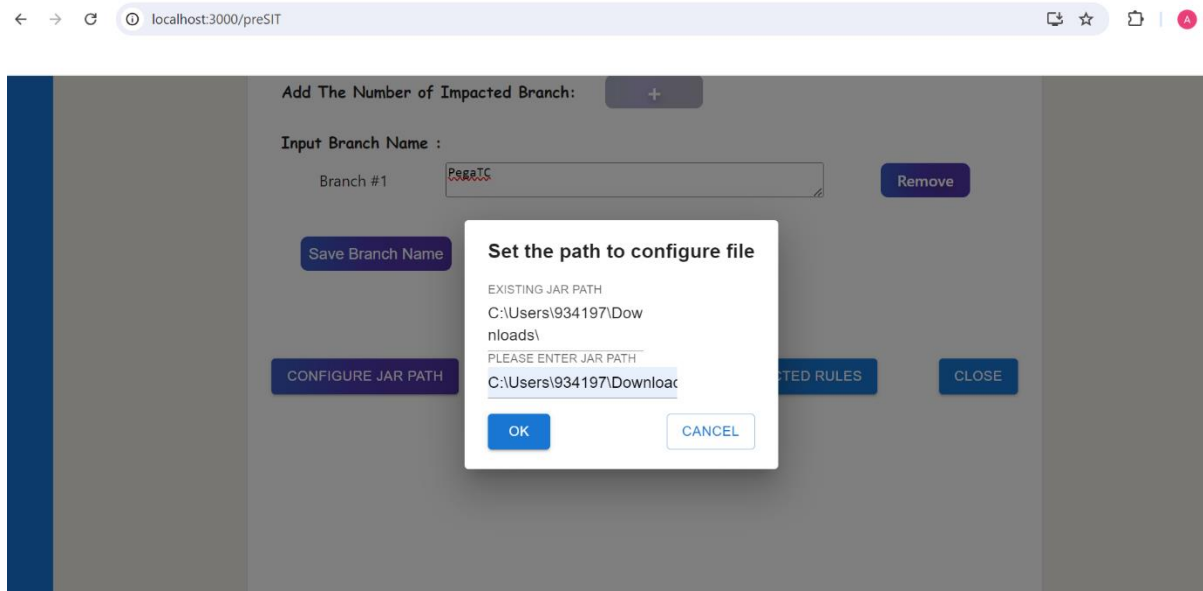
- Select Pega Pre-SIT Testing option and click on proceed.



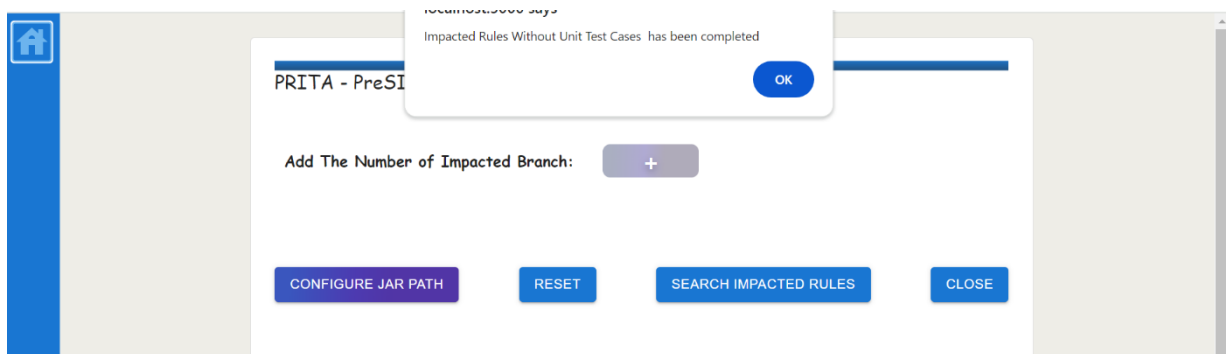
- Click on the '+' button to add branch (Max. No. Of branch can be added is 5), click on Save Branch Name button to save the branch.



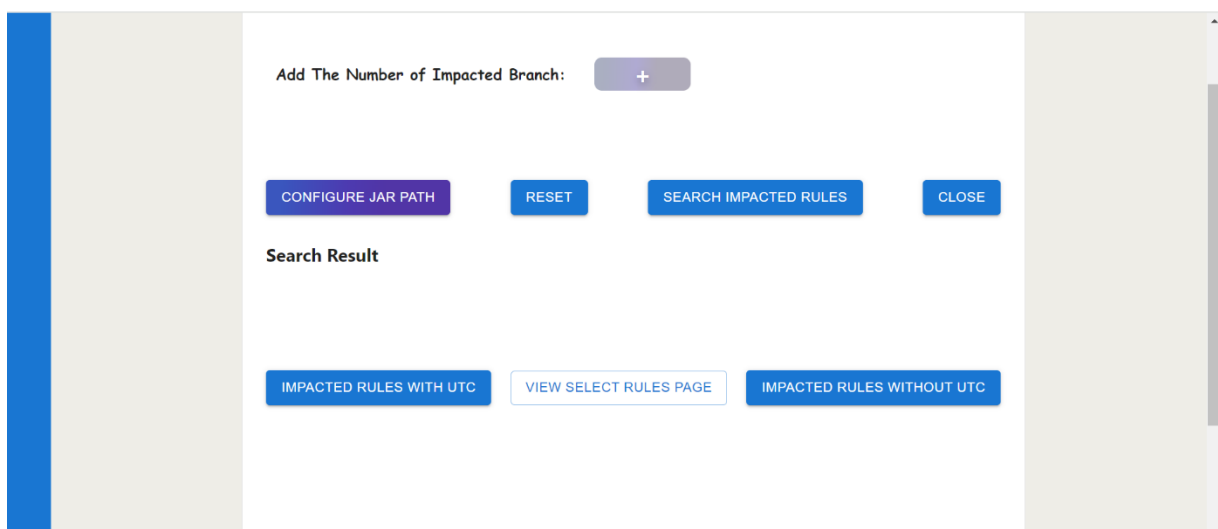
- **Configure the Jar Path:**
Enter the path to the location/folder where the jar files have been placed and click OK to set the jar path.
(Note: Once a path is given it will be automatically saved in cached memory, so setting the path is not always necessary until the path to jar files needs to be changed.)

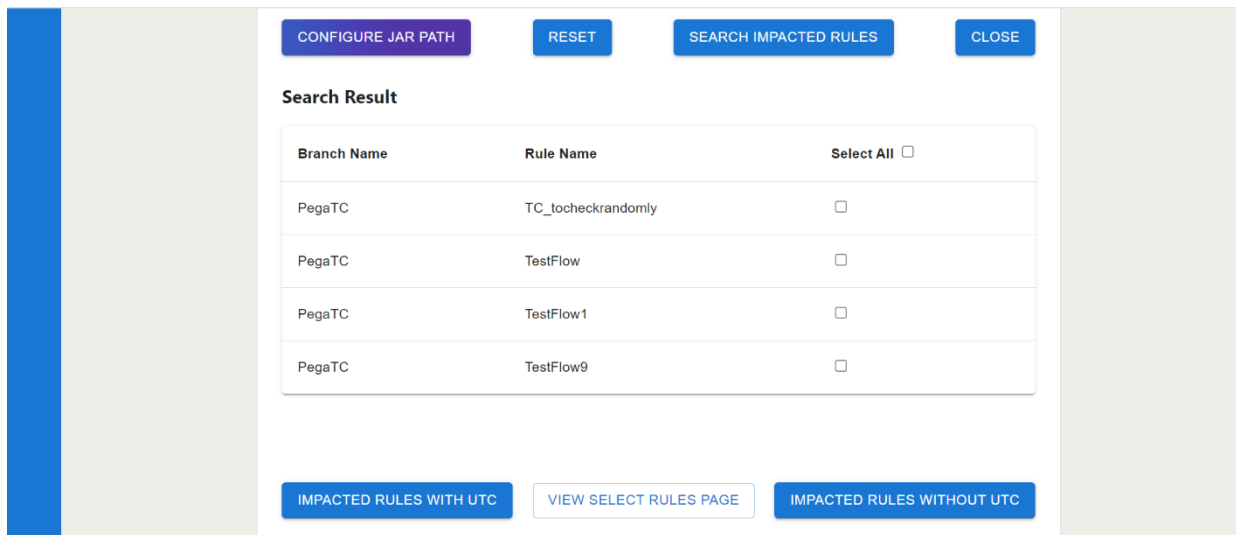


- Click on Search Impacted Rules button to launch the automation scripts, once the script gets executed click on OK to view the Search Results.

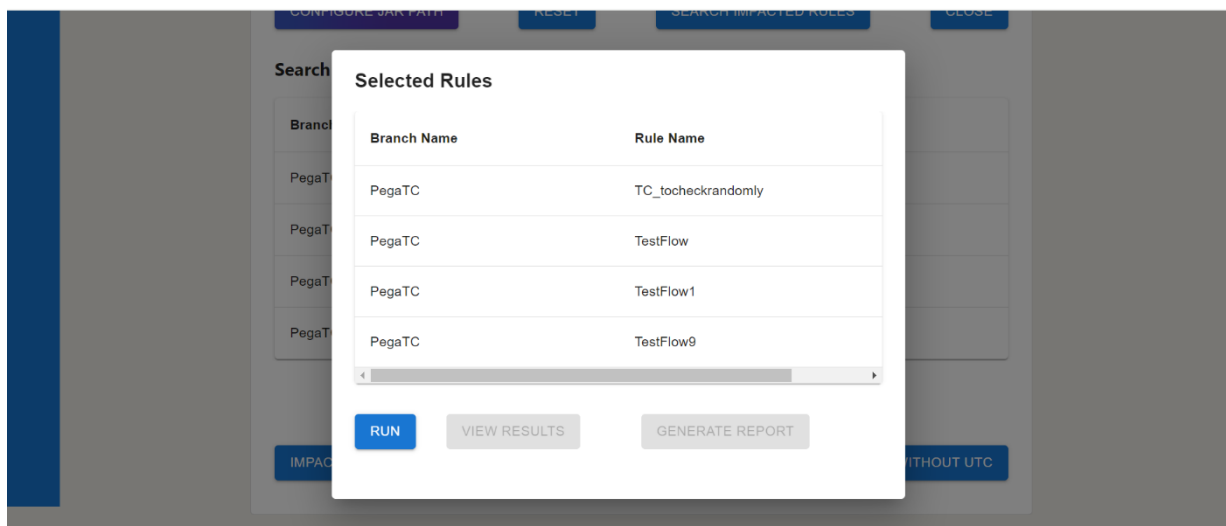


- Click on the Impacted Rules with UTC to see the impacted rules once the script gets executed.

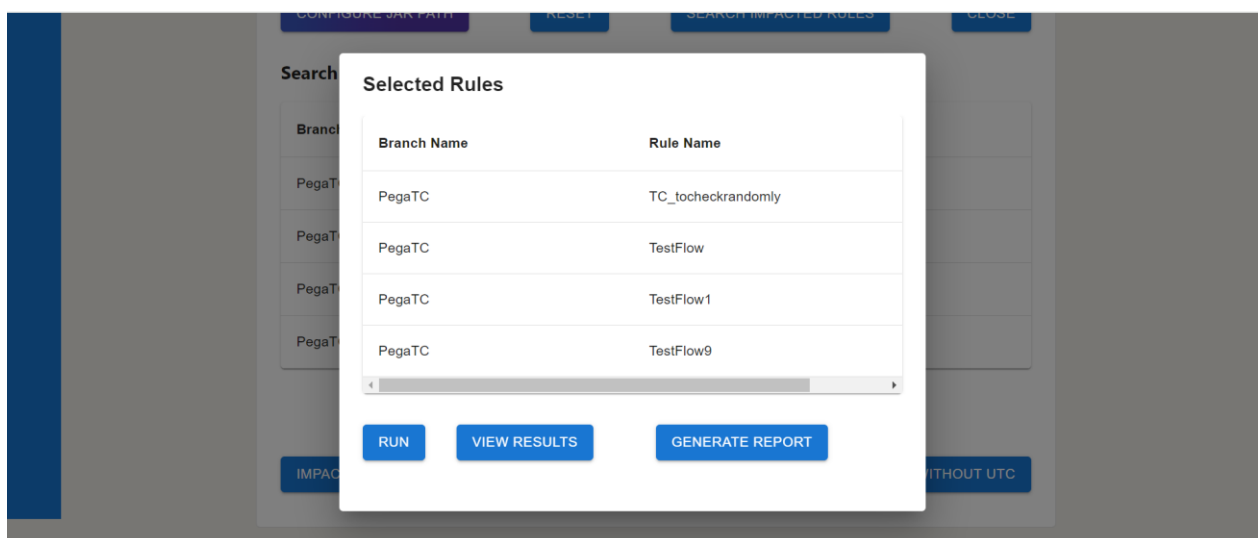




- Select rules by clicking on the checkbox and click on View Selected Page, this page displays the selected rules which can be executed by clicking on the run button.



- Once the selected rules get executed, View Results Button will get enabled, click on View Results to prepare the Impacted Rules Report.



- Once the report gets prepared click on Generate Report button to view the Pega Scenario Test Results

Pega Unit Test Report								
Test Case	Test Case Name	Label	Rule Under Test InsName	Test Case Create Operator Name	Test Case Create Date/Time	Last Run	Test Case Result	Actual Run time for Automated Unit test case
TC_TestFlow	Test Flow	Flow	MYORG-WHEELSON-WORK!TESTFLOW1	Developer	45254.281385138886	45595.19616006944	Passed	1.427
TC_TestFlow9	TC_TestFlow9	Flow	MYORG-WHEELSON-WORK!TESTFLOW9	Developer	45257.3000590625	45595.19619084491	Passed	1.575
TC_TestFlow_PegaPOC	TestFlow_Pega POC	Flow	MYORG-WHEELSON-WORK!TESTFLOW9	Suman Mishra	45363.690860821756	45593.44329708334	Passed	0.455

- The generated report is stored under the path [\\Downloads\\PRITA\\Data\\PegaUnitTestResult\\PegaUnitTestReport.xlsx](#)

File Explorer view of the generated report:

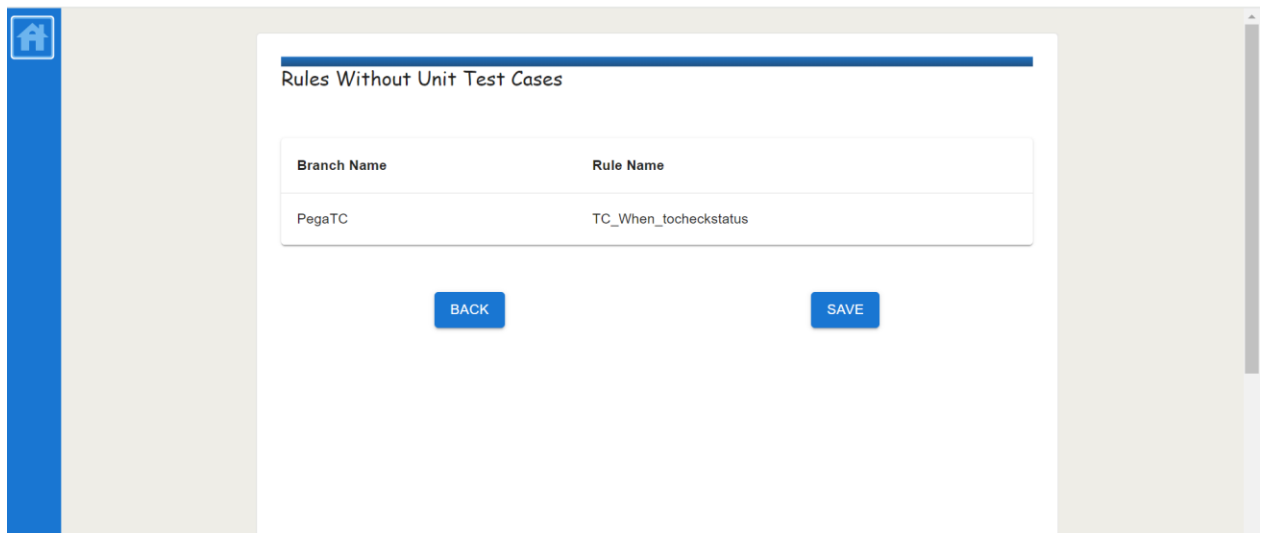
Path: Downloads > PRITA > Data > PegaUnitTestResult

File: PegaUnitTestReport (Microsoft Excel Work..., 6 KB, 10/29/2024 3:08 PM)

Excel Report Content:

Test Case	Test Case Name	Label	Rule Under Test InsName	Test Case Create Operator Name	Test Case Create Date/Time	Last Run	Test Case Result
TC_01_Activity_Test	TC_01_Activity_Test	Activity	MYORG-WHEELSON-WORK!ACTIVITY_TEST	Pradeep Chandra Nelakurthi	8/31/2023 6:18		
TC.When	TC.When	When	MYORG-WHEELSON-WORK!WHEN_TEST	Developer	11/24/2023 5:28		
TC_TestFlow	Test Flow	Flow	MYORG-WHEELSON-WORK!TESTFLOW1	Developer	11/24/2023 6:45	10/30/24 4:42 AM	Passed
TC.	flow test	Flow	MYORG-WHEELSON-WORK!TESTFLOW	Developer	11/27/2023 3:37	10/30/24 4:42 AM	Failed
TC_TestFlow9	TC_TestFlow9	Flow	MYORG-WHEELSON-WORK!TESTFLOW9	Developer	11/27/2023 7:12	10/30/24 4:42 AM	Passed
TC.tocheckrandomly	TC.tocheckrandomly	When	MYORG-WHEELSON-WORK!TC_TOCHECKRANDOMLY	Developer	11/28/2023 2:35	10/30/24 4:42 AM	Passed
TC_TestFlow_PegaPOC	TestFlow_Pega POC	Flow	MYORG-WHEELSON-WORK!TESTFLOW9	Suman Mishra	3/12/2024 16:34	10/28/24 10:38 AM	Passed
TC_TestWhen	TestWhen	When	MYORG-WHEELSON-WORK!WHEN_TEST	Tester	8/7/2024 2:58		
TC_Test_WhenRule	Test_WhenRule	When	MYORG-WHEELSON-WORK!WHEN_TEST	Tester	8/7/2024 3:41		

- Click on Impacted Rules Without UTC to view the results for rules without unit test cases.



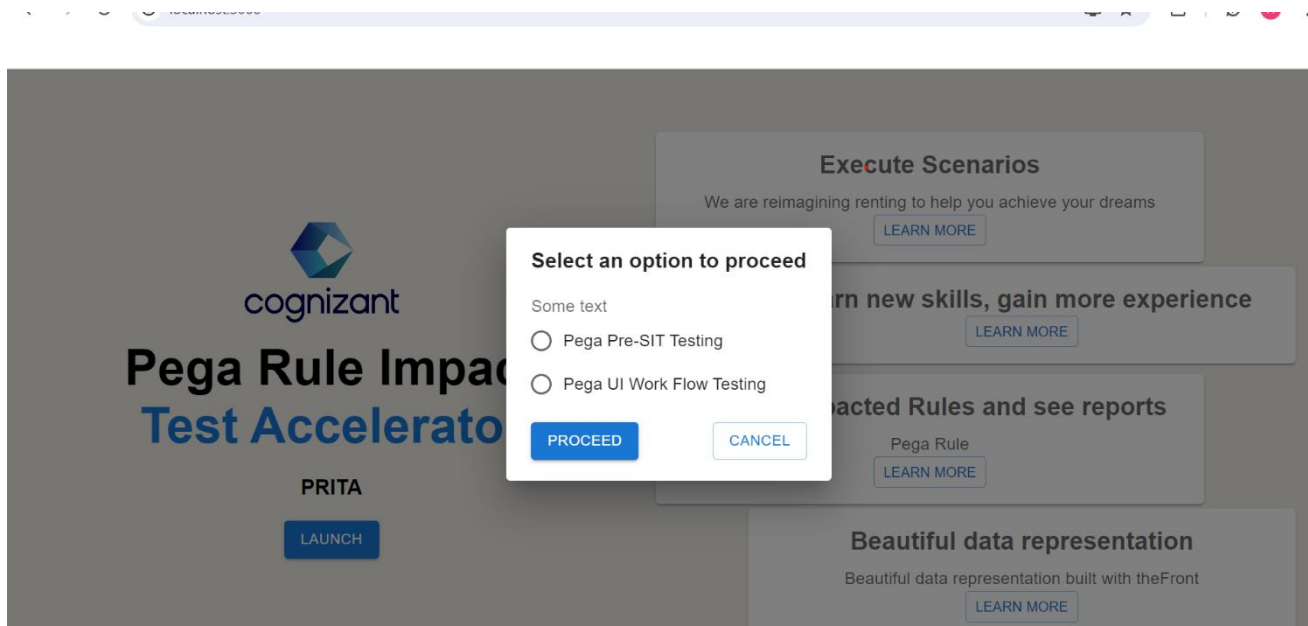
Rules Without Unit Test Cases

Branch Name	Rule Name
PegaTC	TC_When_tocheckstatus

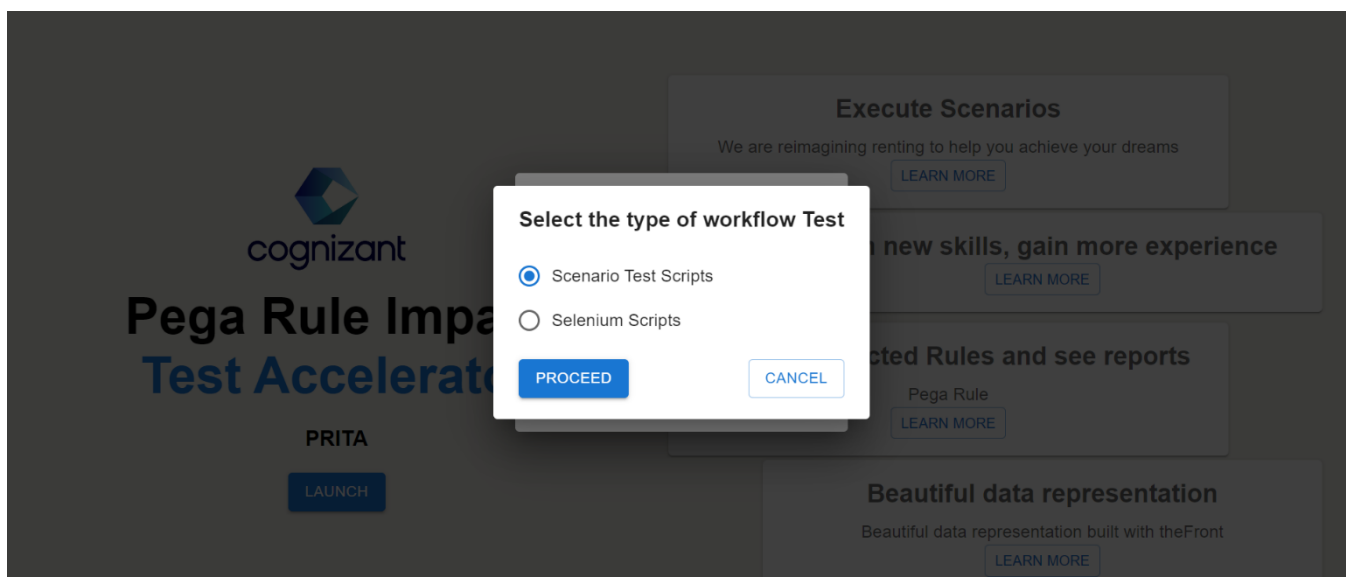
BACK SAVE

Pega UI Workflow Testing:

- Select Pega UI Workflow Testing option after clicking on launch button from the home page.



- It will display two options, select Scenario Test Script option and click Proceed.



- Type the Branch name to be searched and click on Save Branch Name Button

Workflow Testing - Branch Search

Branch Name#

CONFIGURE JAR PATH SAVE BRANCH NAME SEARCH IMPACTED BRANCH CLOSE

List of Scenarios:

VIEW SEARCH RESULT SELECT WORKFLOW TEST SCENARIOS

localhost:3000 says
Created Input File With Branch Name PegaTC

OK

Workflow Testing - Branch Search

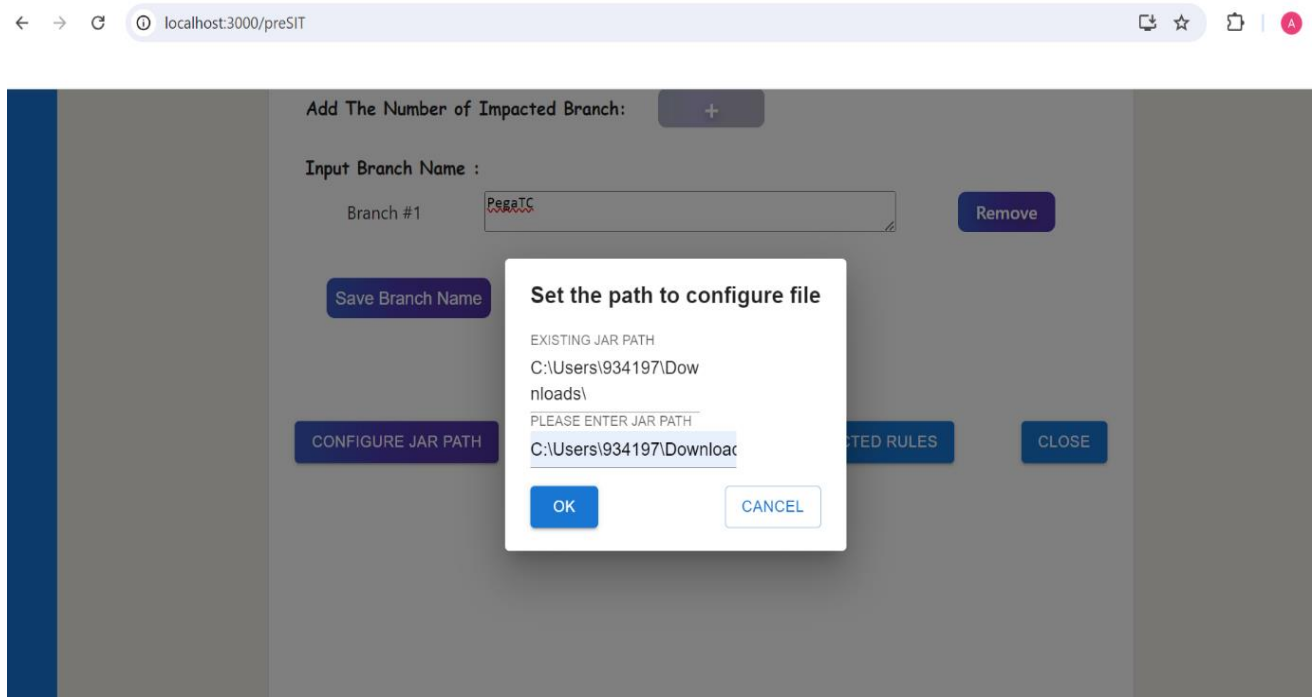
Branch Name#

CONFIGURE JAR PATH SAVE BRANCH NAME SEARCH IMPACTED BRANCH CLOSE

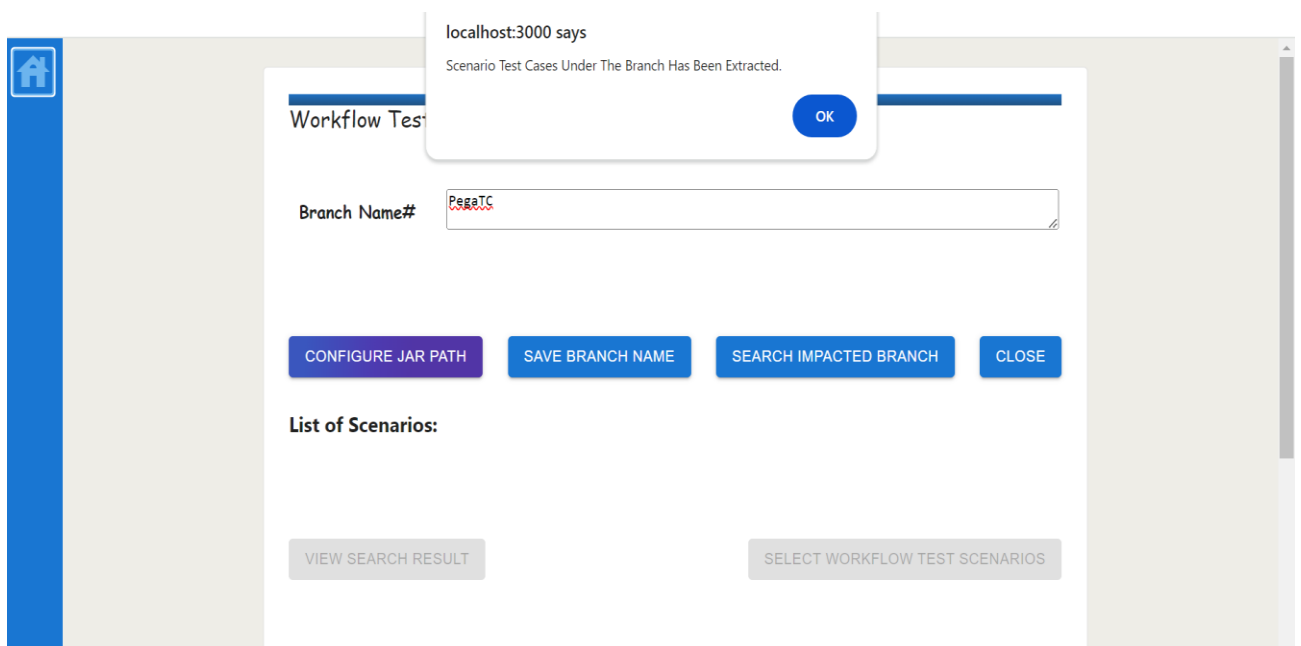
List of Scenarios:

VIEW SEARCH RESULT SELECT WORKFLOW TEST SCENARIOS

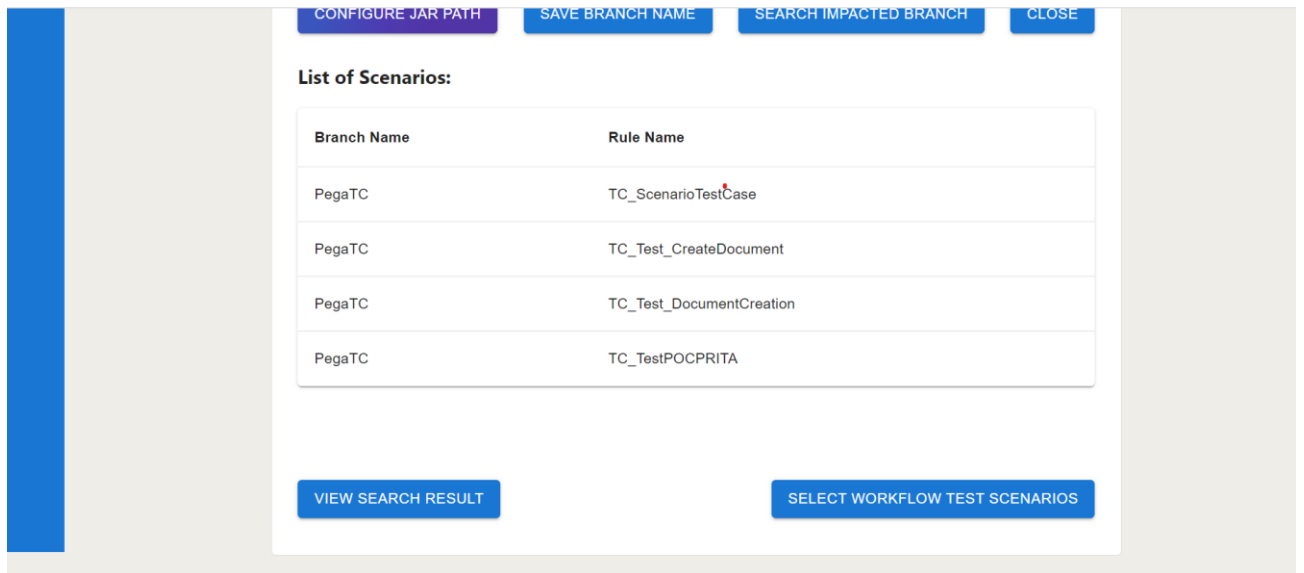
- Configure the Jar path and Click on OK(Enter the path to the location/folder where the jar files have been placed and click OK to set the jar path)



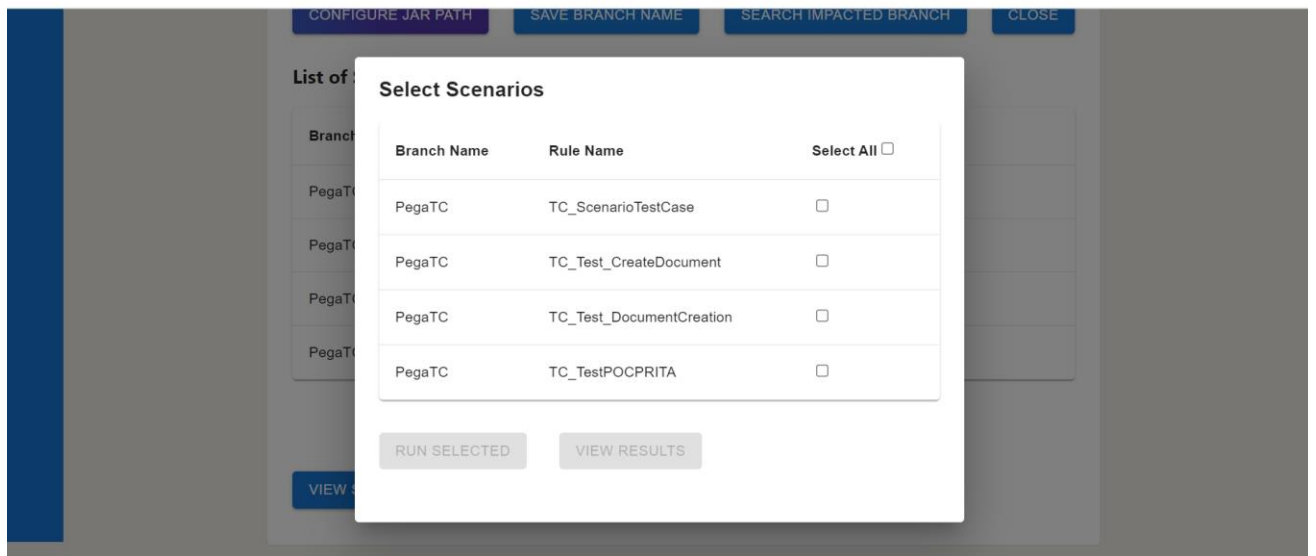
- Click on Search Impacted Rules button to launch the scripts. Once the script gets executed, the View Search Results button will get enabled.



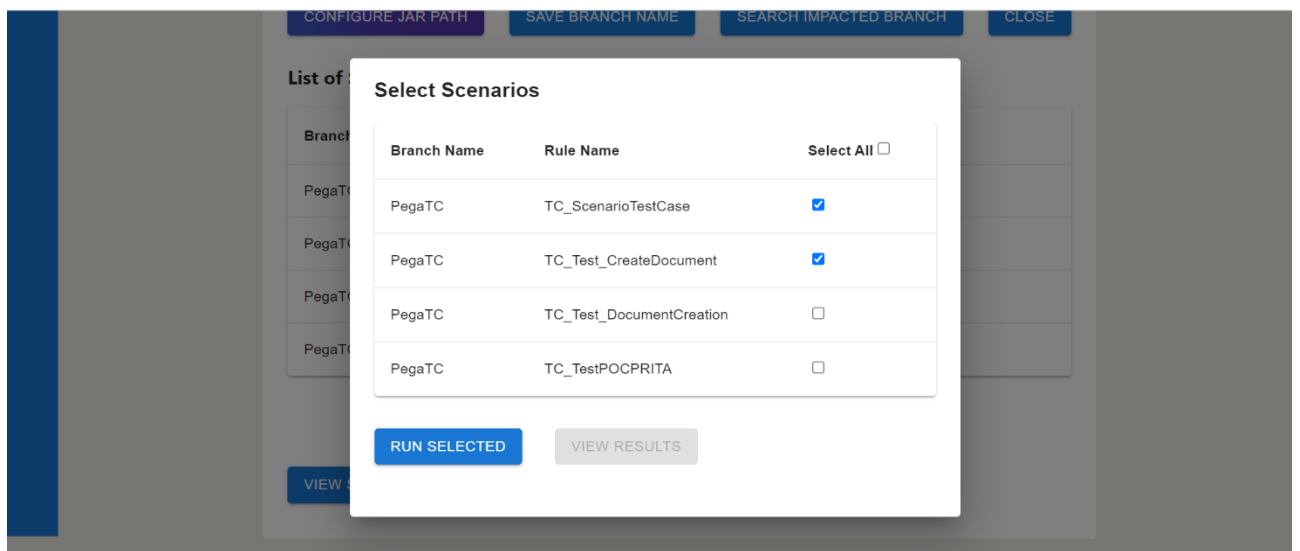
- Click on the View Search Results to display the scenario cases present under the branch.



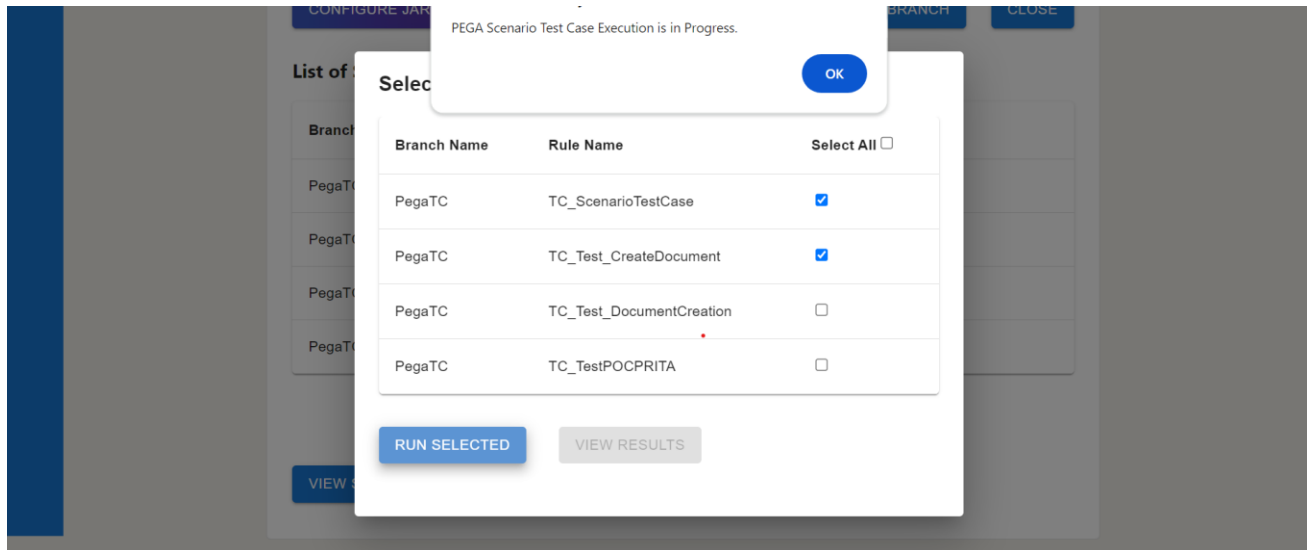
- Click on the Select WorkFlow test scenario button to select the scenarios to be executed.



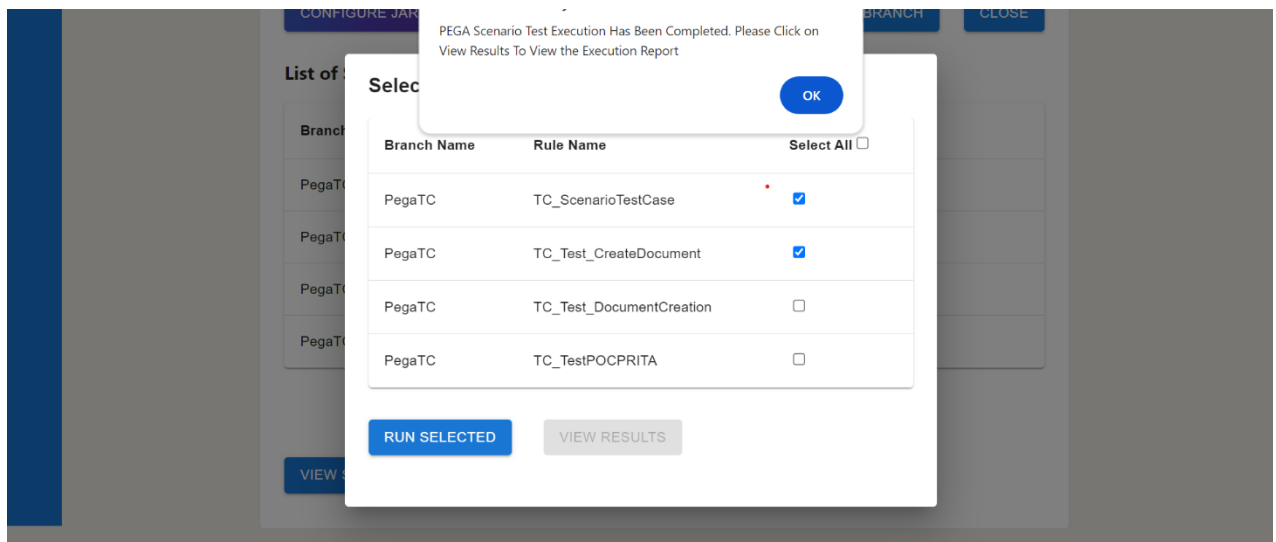
- Click on the check box to select the scenarios, the Run Select button will get enabled.



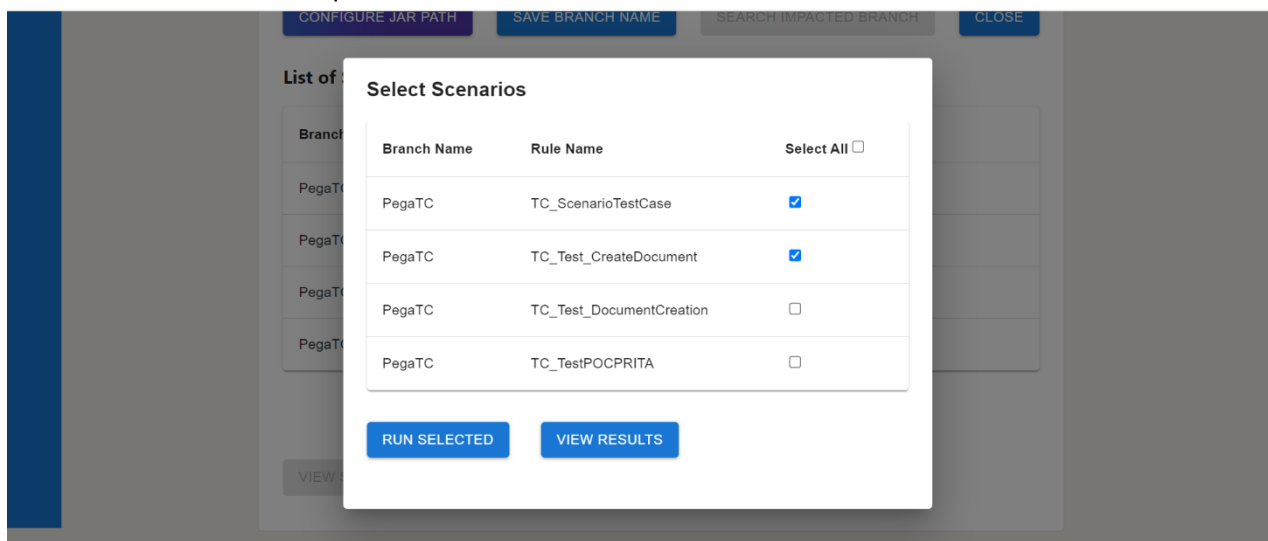
- Click on the Run Selected button to execute the script.



- The execution is completed, click on OK.



- The View Results button will get enabled once the execution is completed, click on the View Results Button to view the Scenario test report.

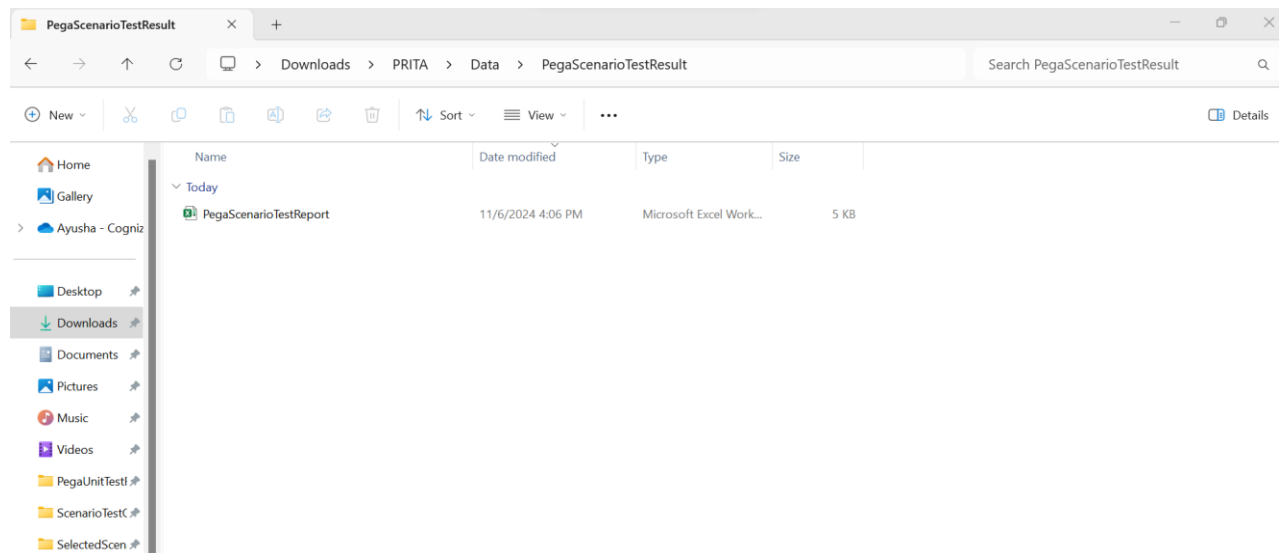


Pega Scenario Test Report

Test case name	Test type	Portal / case name	Run Time	Test Case Run Result	Is Inactive	InsName	is rerun result
TC_Test_PRITA_02	Portal	pyCaseManager7	45603.299991527776	Failed	False	MYORG-WHEELSON-WORK!TC_TEST_PRITA_02	False
TC_Test_PRITA_01	Portal	pyCaseManager7	45603.300160439816	Passed	False	MYORG-WHEELSON-WORK!TC_TEST_PRITA_01	False
TC_Test_CreateDocument	Portal	pyCaseManager7			False	MYORG-WHEELSON-WORK!TC_TEST_CREATEDOCUMENT	False
TC_Test_DocumentCreation	Portal	pyCaseManager7	45603.29743875	Passed	False	MYORG-WHEELSON-WORK!TC_TEST_DOCUMENTCREATION	False
TC_ScenarioTestCase	Portal	pyCaseWorker			False	MYORG-WHEELSON-WORK!TC_SCENARIOTESTCASE	False

- The generated report is stored under the path

[\\Downloads\\PRITA\\Data\\PegaScenarioTestResult\\PegaScenarioTestReport.xlsx](#)



Test case name	Test type	Portal / case name	Run Time	Test Case Run Result	Is Inactive	InsName
TC_Test_PRITA_02	Portal	pyCaseManager7	11/7/24 7:11 AM	Failed	False	MYORG-WHEELSON-WORK!TC_TEST_PRITA_02
TC_Test_PRITA_01	Portal	pyCaseManager7	11/7/24 7:12 AM	Passed	False	MYORG-WHEELSON-WORK!TC_TEST_PRITA_01
TC_Test_CreateDocument	Portal	pyCaseManager7			False	MYORG-WHEELSON-WORK!TC_TEST_CREATEDOCUMENT
TC_Test_DocumentCreation	Portal	pyCaseManager7	11/7/24 7:08 AM	Passed	False	MYORG-WHEELSON-WORK!TC_TEST_DOCUMENTCREATION
TC_ScenarioTestCase	Portal	pyCaseWorker			False	MYORG-WHEELSON-WORK!TC_SCENARIOTESTCASE
TC_TestPOCPRITA	Portal	pyCaseWorker			False	MYORG-WHEELSON-WORK!TC_TESTPOCPRITA