Phase 3 Final Project Assessment **Name: Prajwal Diwakar**

Non-Functional Testing Using Postman, REST Assured, and JMeter.

Write Up:

Postman

Aim:

To study and understand the Non Functional testing of the web application using the Postman.

Tools:

Postman
Endpoint URL

Steps and Procedures:

1) Create the account and login to the postman application.

2) Once the postman application is ready, create a new workspace by adding the name and summary into the input text.

3) After the creation of the workspace, create the new blank collection and name accordingly.

4) Add the request that is the GET request, in order to get the weather reports from the Application Programming Interface.

5) Add the variable and test statements to the collection, so it can be accessed by every request created inside to that particular collection.

6) In order to generate the test results, write the test scripts which is written by using the Javascript.

7) After the response is received, check the data generated is matching to the expected outcome by using the methods in the test scripts of the request.

8) Finally export the collection to the particular folder and upload to the github repository.

REST Assured

Aim:

To study and understand the Non Functional testing of the web application using the REST Assured.

Tools:

Eclipse IDE

Java 1.8

TestNG

Maven

Steps and Procedures:

1) Create the new maven project and add the package with the java class.

2) Add the maven dependencies in the pom file .

3) Refresh the project to get the maven dependencies to run the project.

4) After creating the java class write the test cases in the testing with the rest assured framework.

5) Create the validation statements to check the response of the API.

6) To generate the logger, we need to add the log4j.properties file to the project.

7) In console window, we will get the printed statements which is written inside the logger.

8) Logger is commonly used to printout the statements in case of the API response not the printout statements.

9) In order to create the logger file in the separate folder we need to add the Rolling File Appender and certain statements to the log4j.properties file.

10) Run the java class using the testing and validate the output.

JMeter

Aim:

To study and understand the Non Functional testing of the web application using the JMeter

Tools:

JMeter 5.1.1 version

Java Development Kit (Version 8)

Steps and Procedures:

1) Launch the Jmeter in the system

2) Create the thread group

3) Create the HTTP request inside the thread group and name accordingly.

4) Setup the JSON assertion inside the HTTP sampler request.

5) Add the HTTP Authorization Manager config element.

7) Add the another HTTP request sampler to test the simplilearn platform logo

8) Insert the XPATH Assertion to add the xpath of the simplilearn logo.

9) Add the listeners such as view result tree, summary report and aggregate report.

GitHub Link: https://github.com/Prajwal-Diwakar/Practice-Project1.git