Automation Testing Capstone Project Create a Testing Framework for Sporty Shoes Website Name: Harsh Jain

Problem Statement and Motivation Real-Time Scenario:

Sporty Shoes has an e-commerce website that has the following existing features in place: I used https://neemans.com/ for the task.

- Users can view products , I wrote some functionality for that also .
- If users want to purchase something, they can first sign up and then log in
- Users can add multiple items to their cart and do a checkout.
- Users have a dashboard that lets them edit their profile, view past purchases, and view their cart
- Once users do a checkout, the items are cleared from their cart and an order is generated which is stored in their order history The above application is already functional. What is needed now is to add a testing layer that will ensure that everything is passed through QA.

Task:

The following tasks outline the testing framework creation:

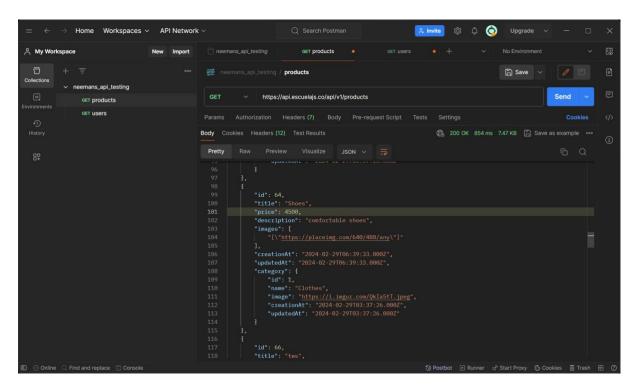
- 1. Add additional code to the original project to add a REST API module. This module will have two API endpoints:
- Retrieve the list of all products in the store
- Retrieve the list of all registered users
- 2. Create Selenium scripts to test all the pages in the web app
- 3. Do unit testing for all the backend classes and methods
- 4. Create JMeter scripts to do load testing of the homepage and the product detail page

How to execute:

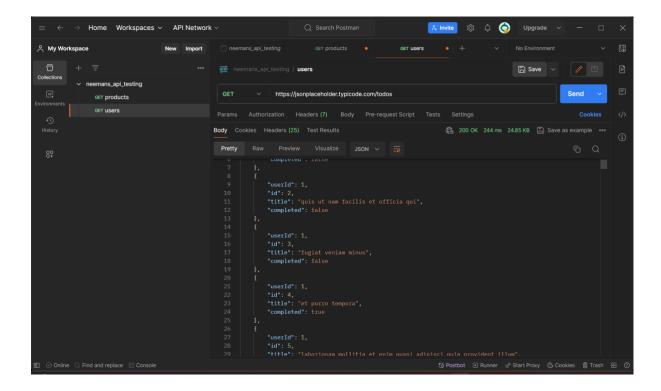
- 1. Import the project in eclipse IDE
- 2. Identify testNG.xml
- 3. Run testNG.xml
- 4. Open the jmiter file provide there and run it .

Task 1 Screenshots:

For products:



For users:



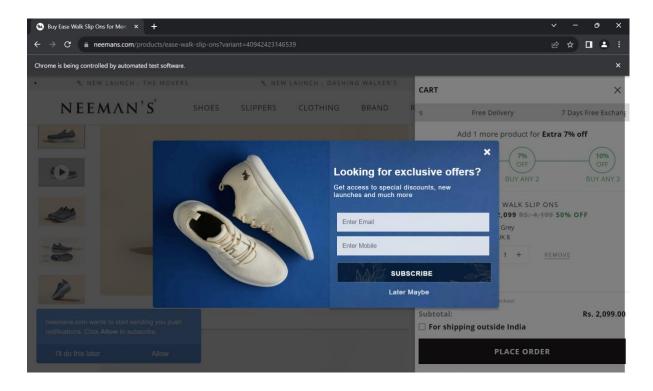
Task 2 & 3 Screenshots:

Folder structure:

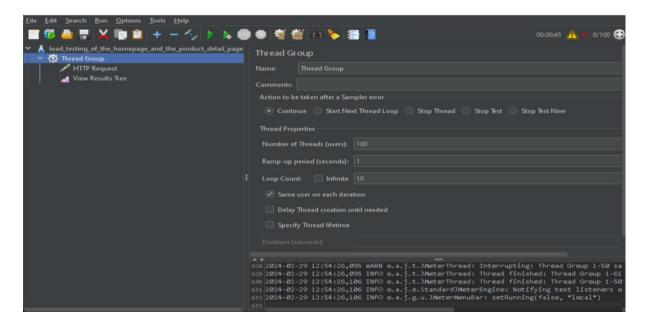
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projectspoety
src/main/java
sportyshoes.projectspoety
libreryClass.java
src/test/java
sportyshoes.projectspoety
testcase001.java
JRE System Library [JavaSE-1.8]
Maven Dependencies
src
target
test-output
pom.xml
```

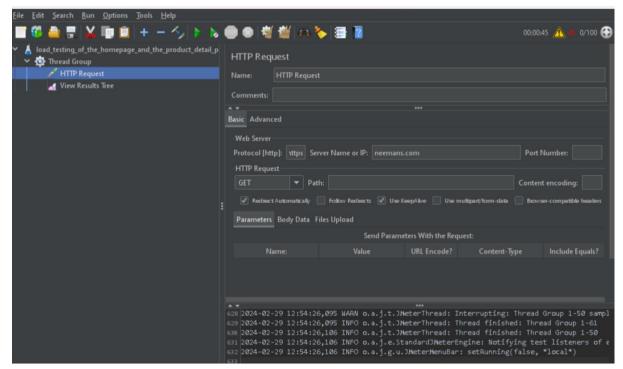
Moduler code:

The popup:



Task 4 Screenshots:





Result of the load testing.

