Capstone Project

- ***Objective:***

The objective is to develop a comprehensive QA and test suite for the Sporty Shoes website. The QA effort will require the following:

1. Browser-based end-user testing using Selenium WebDriver with TestNG Framework.
2. Load Testing using JMeter.
3. API Testing with Cucumber.
4. API Testing with Postman and Rest Assured.

- ***Tools Required:***

➢ Postman
➢ Java 11
➢ Maven
➢ Rest Assured Maven dependency version 4.5.1
➢ TestNG Maven dependency version 7.1.0
➢ JMeter
➢ Cucumber Dependencies
➢ Selenium,WebDriver dependency
➢ Eclipse IDE
➢ GitHub Account

- ***GitHub Link:*** https://github.com/Shivam6190/Java-fsd

- ***Steps to complete the Capstone project:***

Step 1: *Opening the Website*

Step 1.1: Launch the Application under test

- Go to github URL https://github.com/Simplilearn-Edu/SportyShoes.git
- Click on Green button which has Code written on it. Click on Download Zip
- The download zip file will be in your download folder
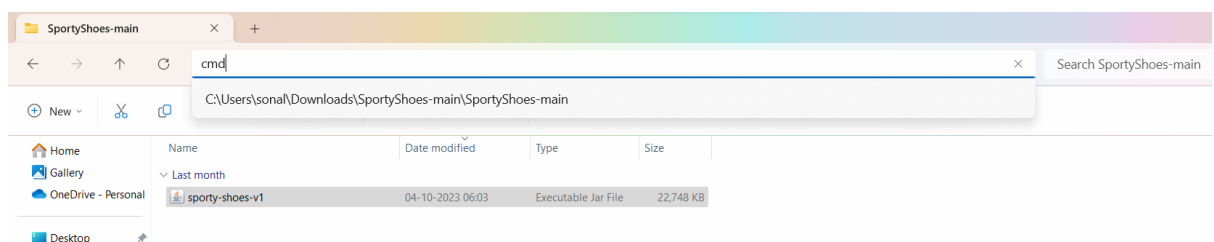- Extract all the files in downloads folder
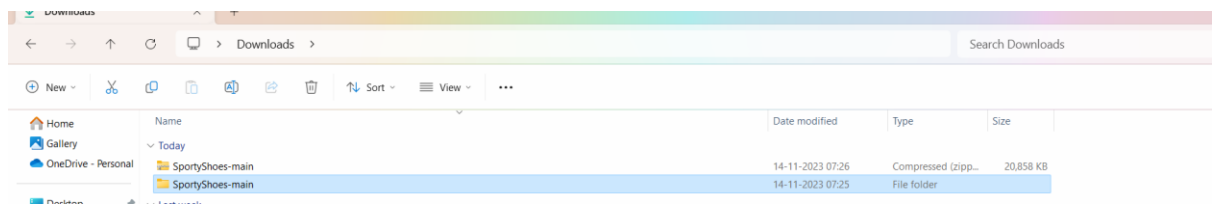
Step 1.2: Go inside the folder SportyShoes-main and then again go in the folder SportyShoes-main

Step 1.3: Go inside the folder where you see the sporty-shoes-v1 jar file
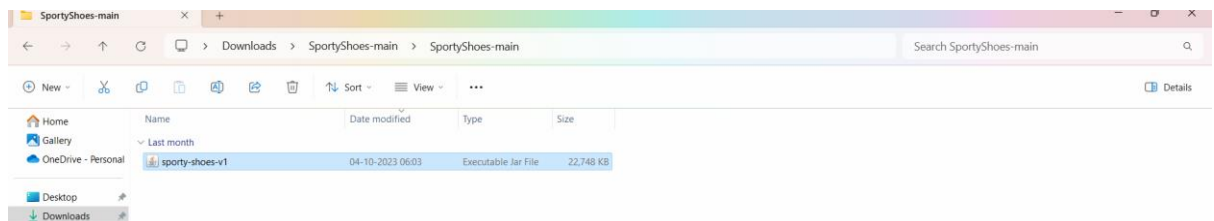
Step 1.4: Start cmd prompt in the same folder

Step 1.5: Execute the java command to run the jar file and deploy the application
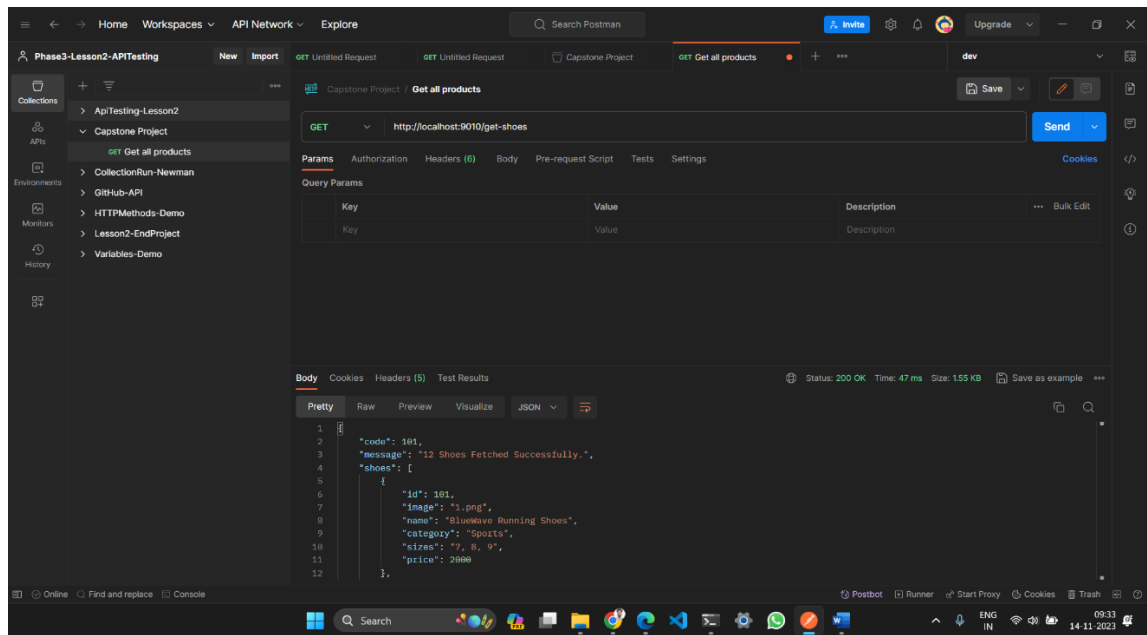
java -jar sporty-shoes-v1.jar

OR

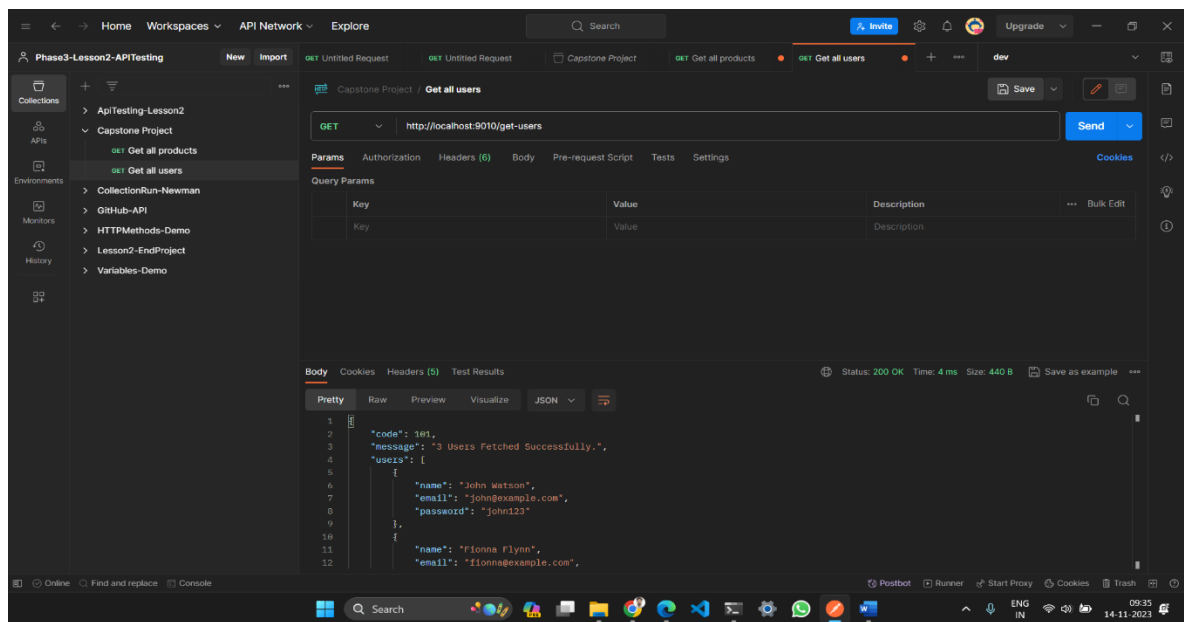java -jar -Dserver.port=8100 sporty-shoes-v1.jar

Step 2: *Implementing Postman Steps:*
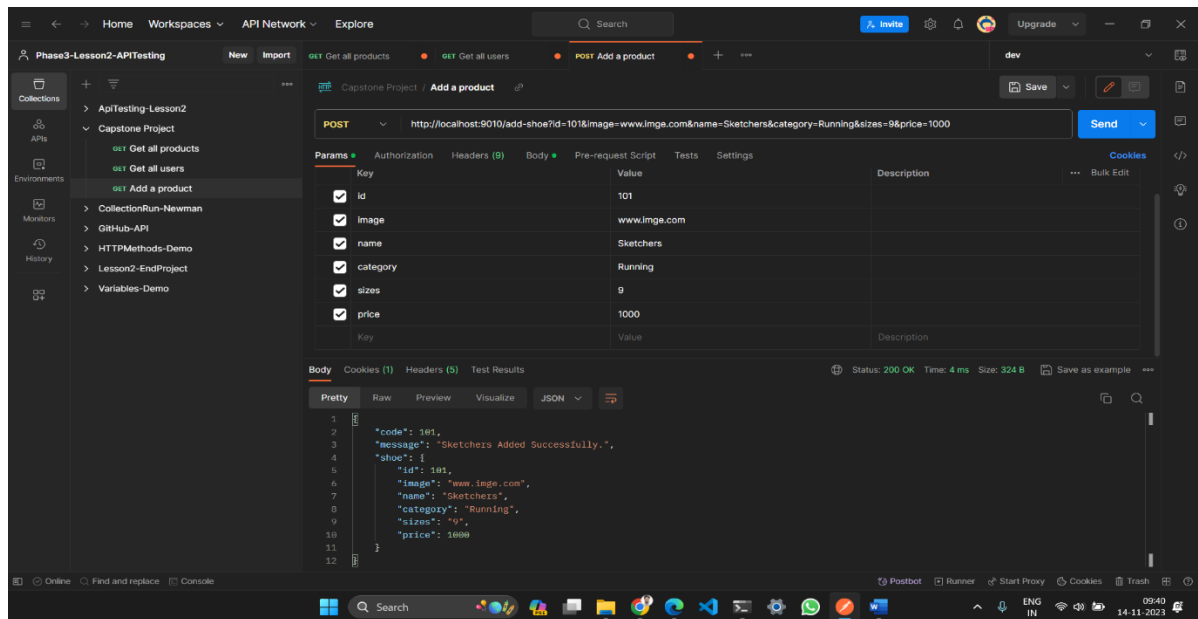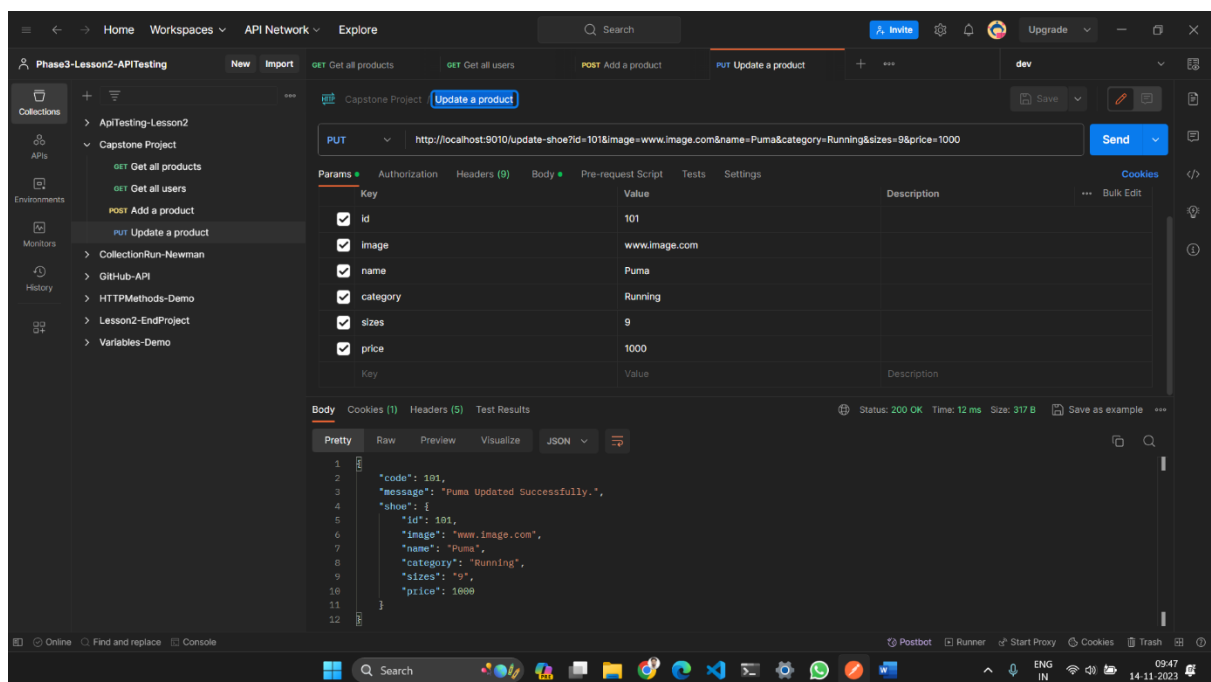
Step 2.1: Get all product using GET Request
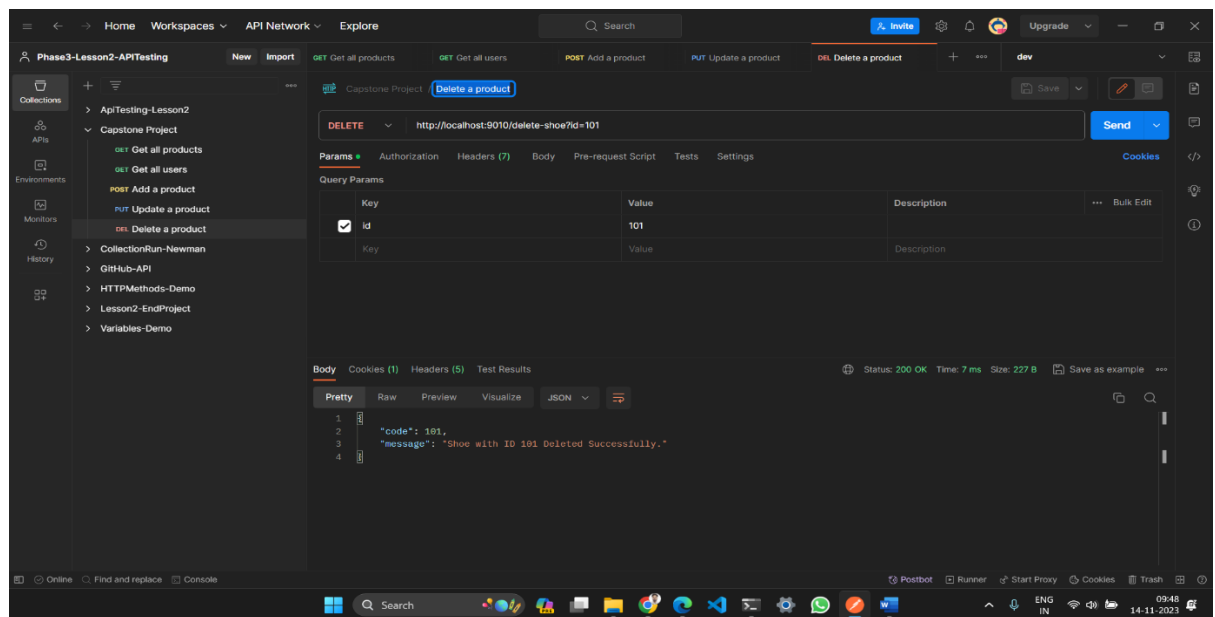
Step 2.1: Get all users using GET Request

Step 2.3: Add a product using POST METHOD

Step 2.4: Update a product using PUT METHOD

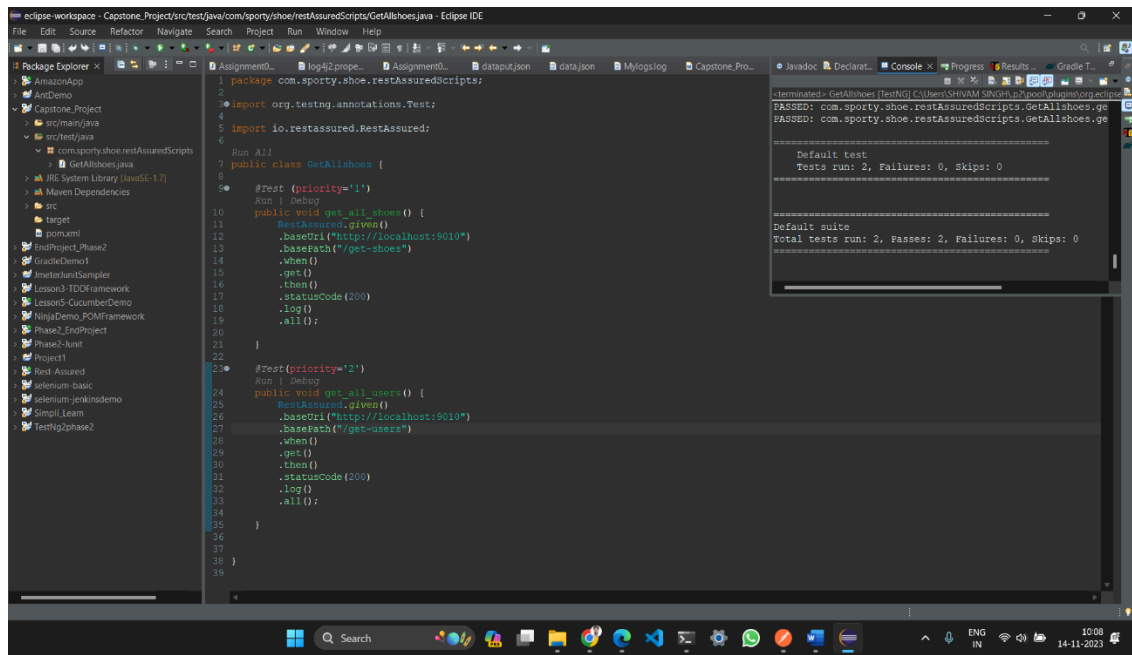Step 2.5: Deleta a product using DELETE Request

Step 3: _Implementing Rest Assured Methods:_

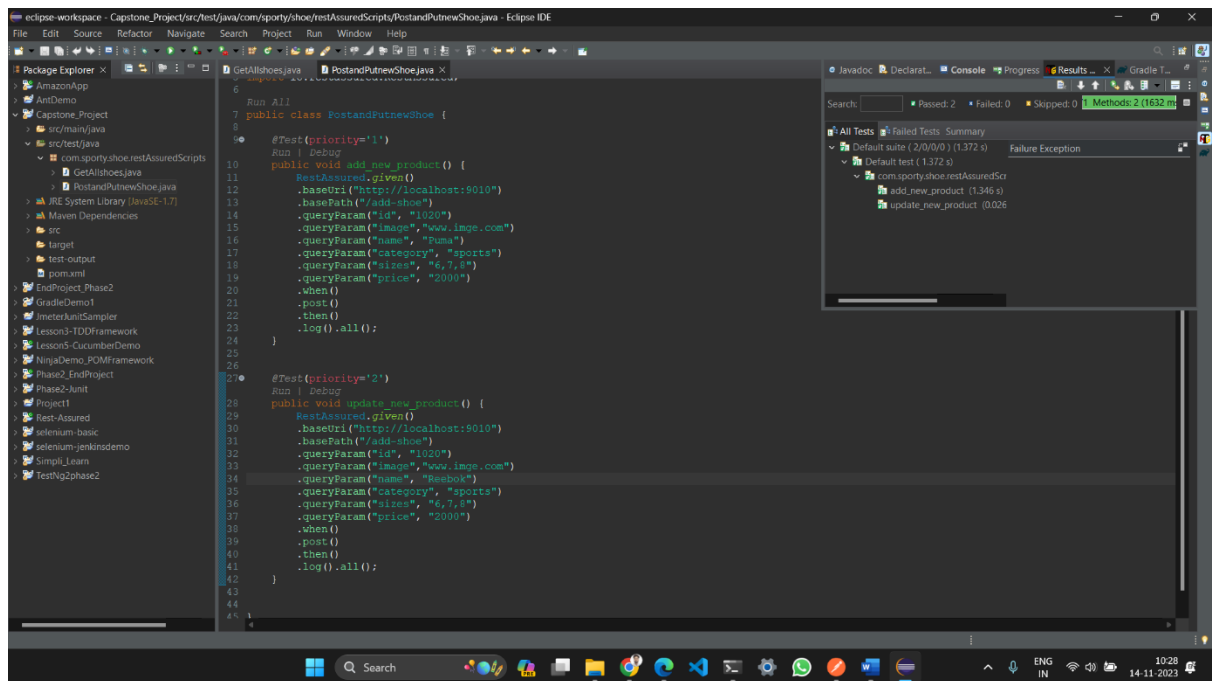Step 3.1: Create a maven project by the name Capstone_Project

Step 3.2: Add the required dependencies in the pom file.

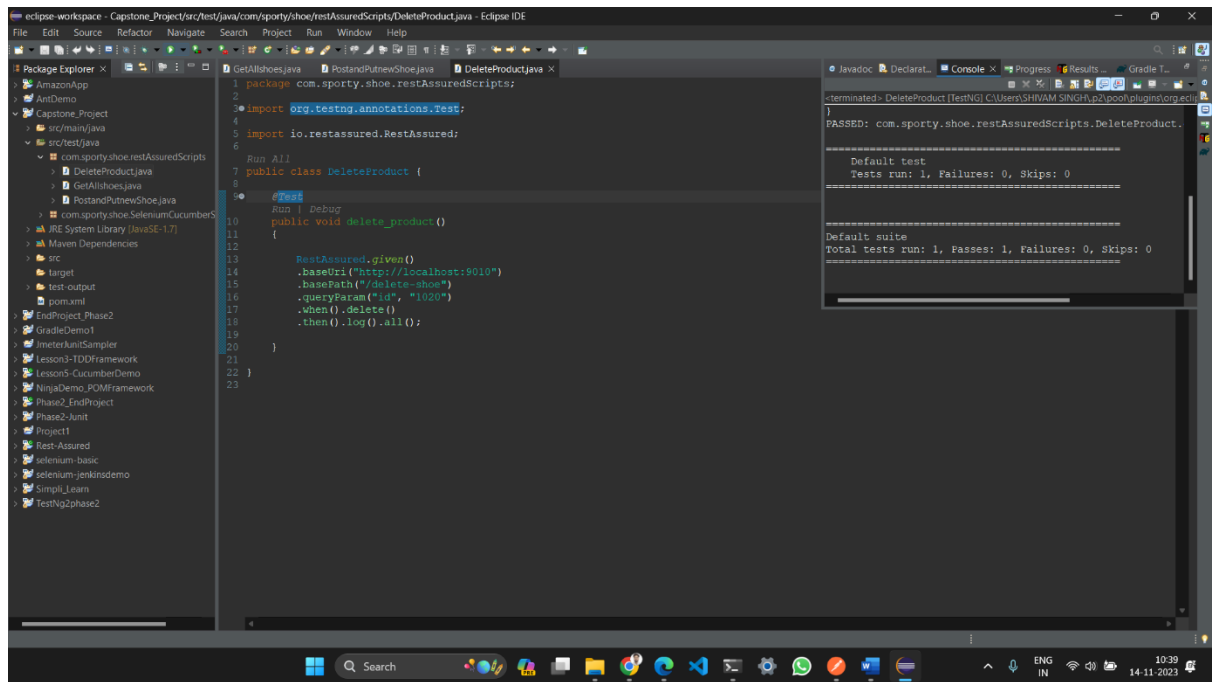Step 3.2: Create a package by the name com.sporty.shoe.restAssuredScripts

Step 3.3; Create a package where the code for GET Method is scripted
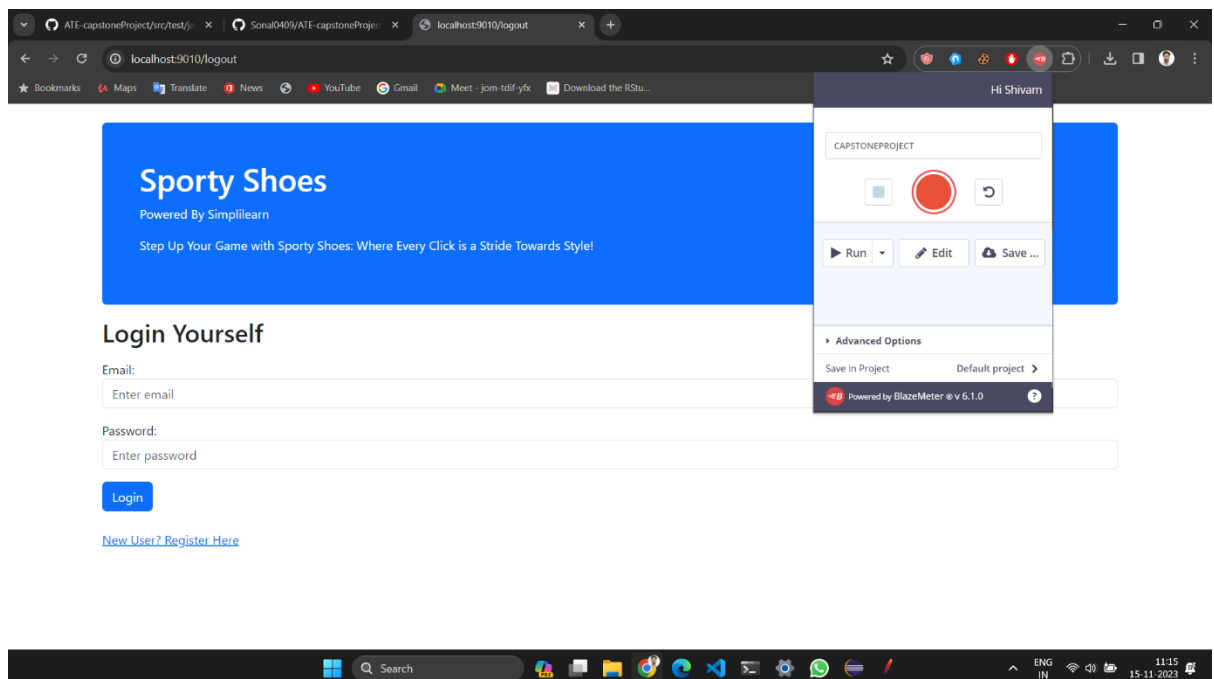
Step 3.4: Create a class for POST and PUT Method Request
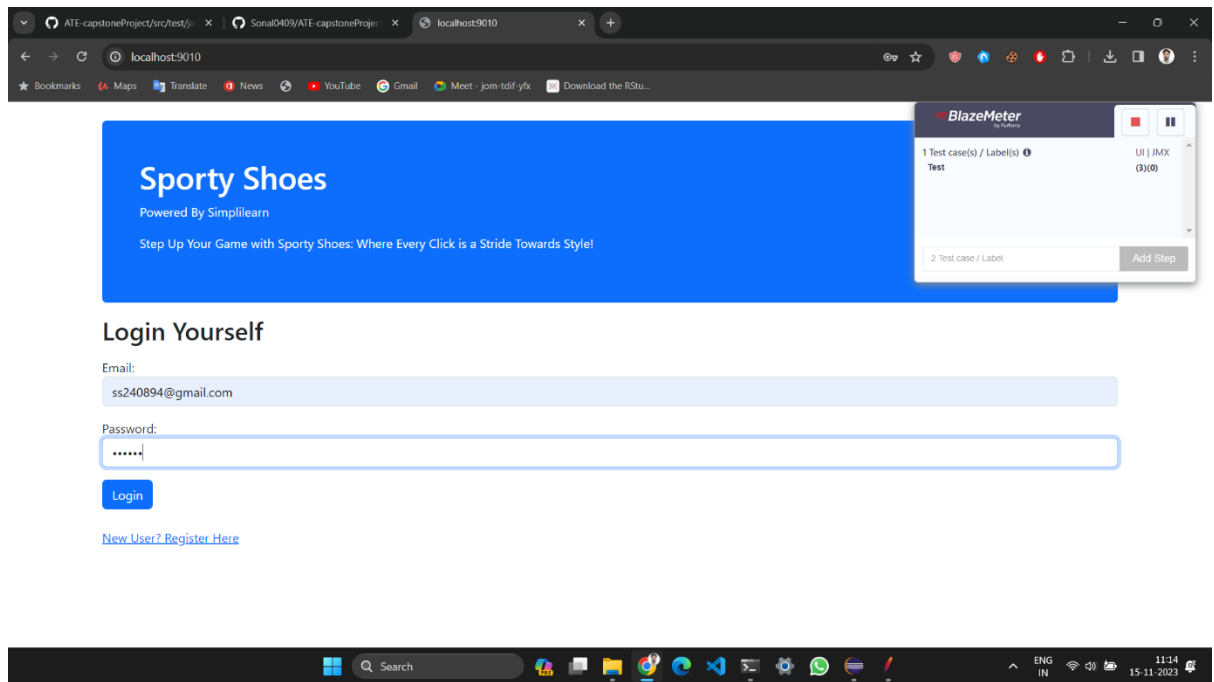

Step 3.5: Create a class for DELETE Request

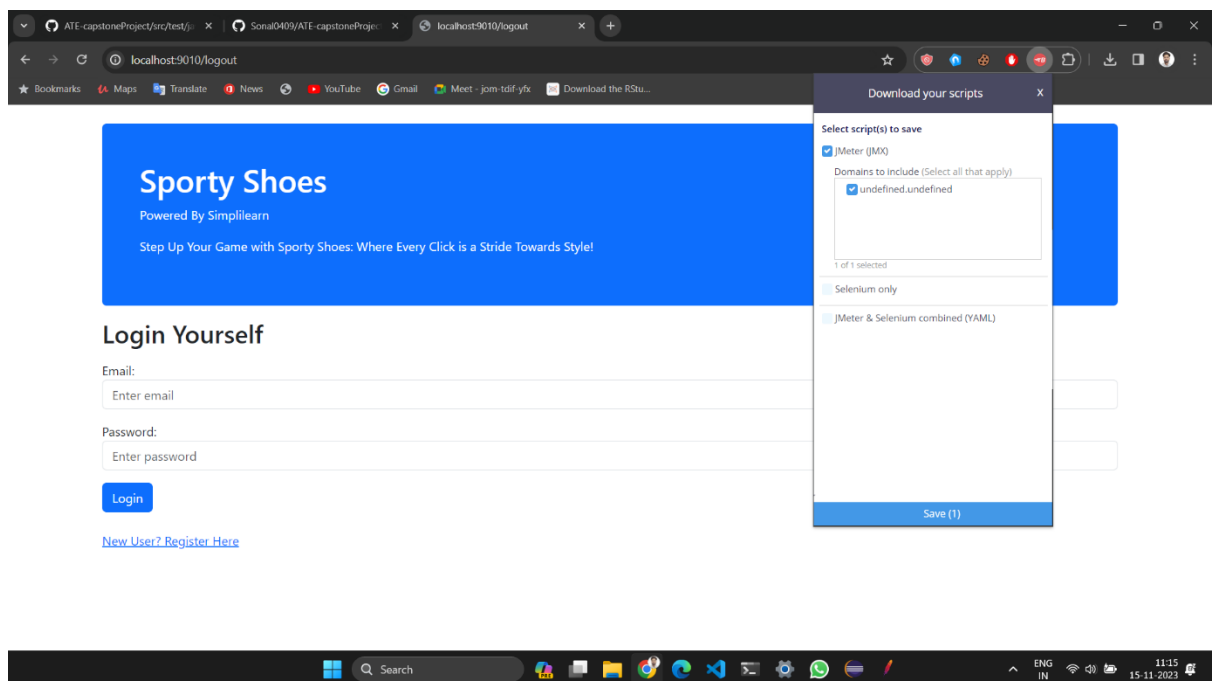**Step 4**: *Load Testing using Jmeter:*

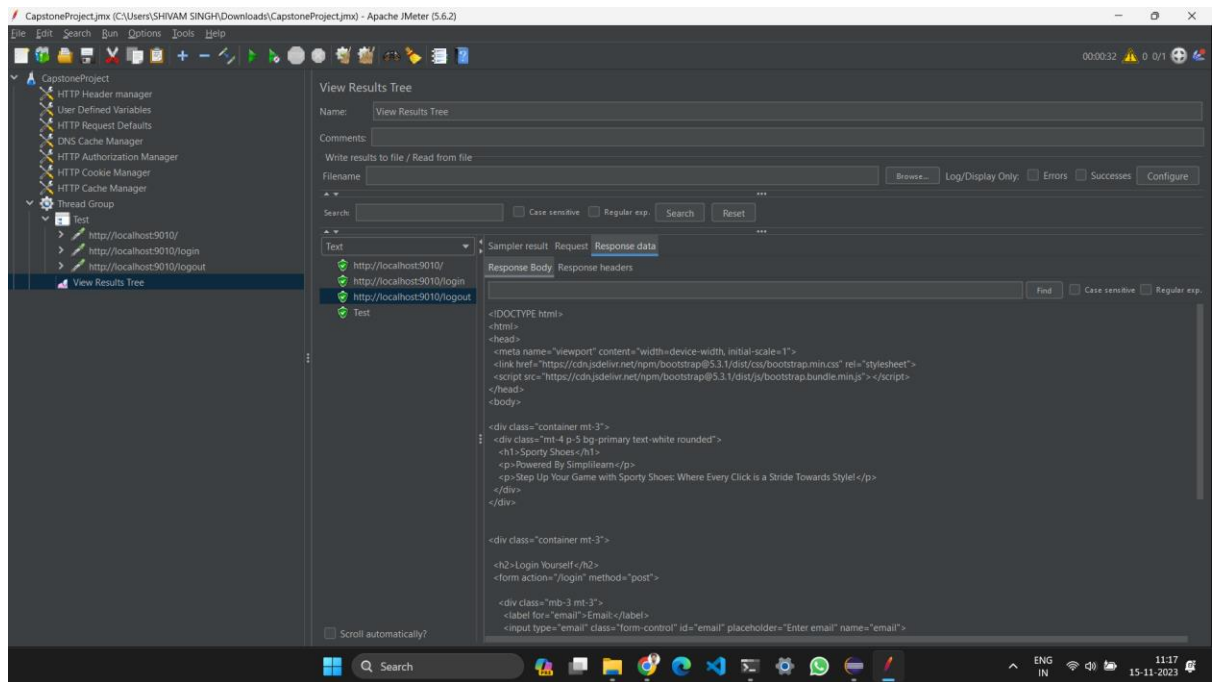Step 4.1: Log in to blazemeter and start recording the steps.

Step 4.2: Save the jmx file into your local device and open it in jmeter.

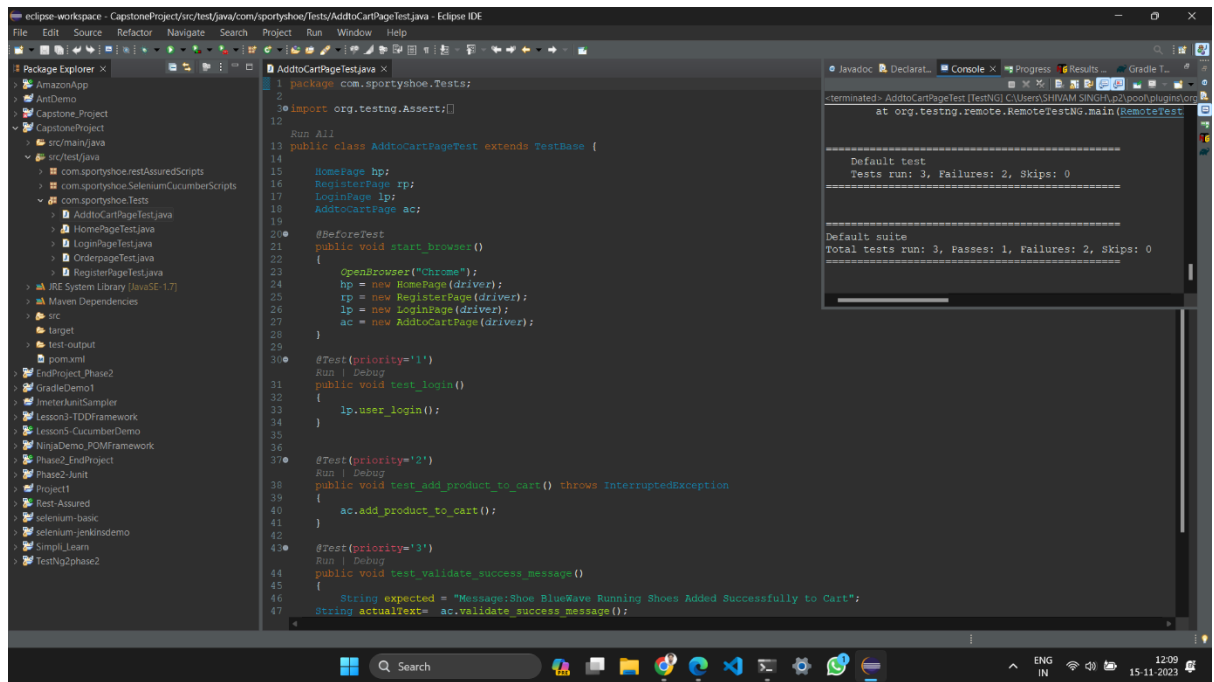Step 4.3: Run the JMX file in Jmeter and check for the results.

Step 5: *Browser-based end-user testing using Selenium WebDriver with TestNG Framework*
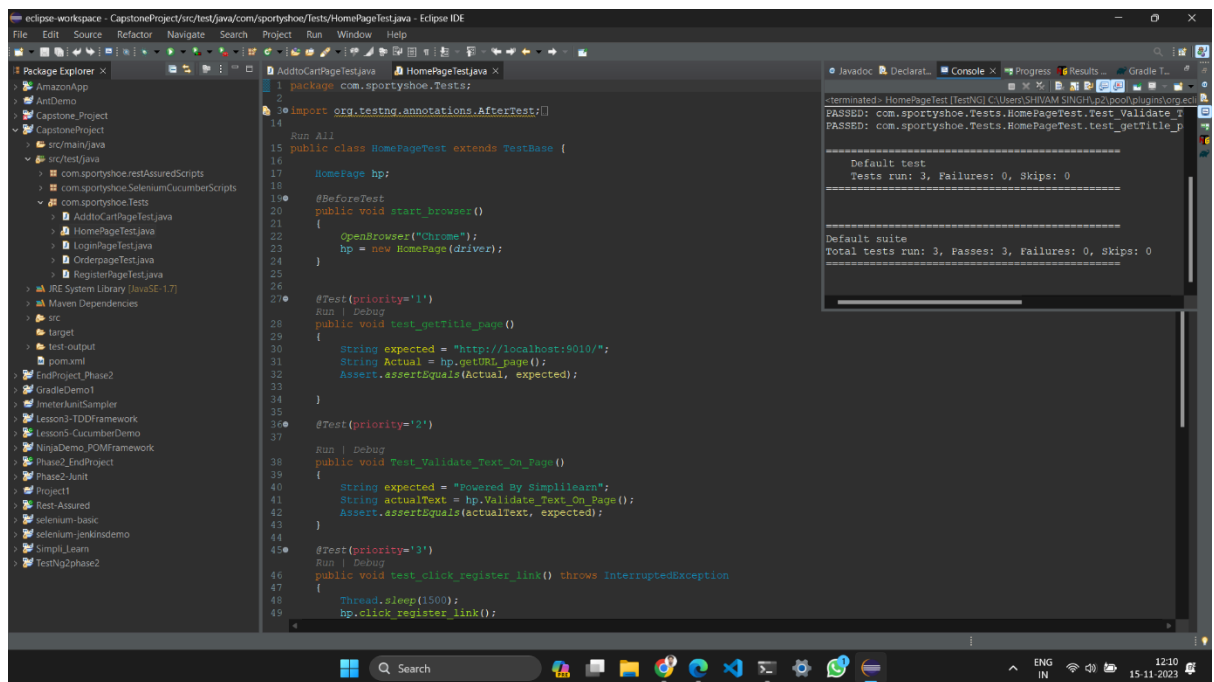
Step 5.1: We created a maven project by the name of CapstoneProject

Step 5.2: We declared two packages for Selenium Scripts and Tests
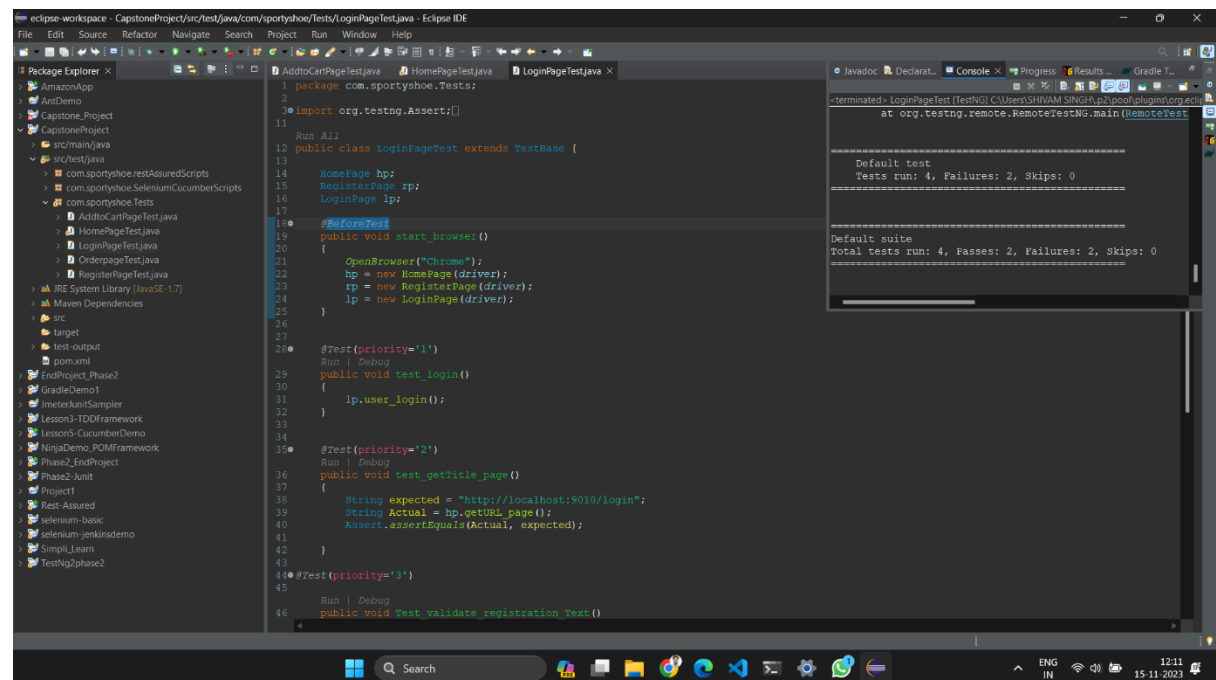
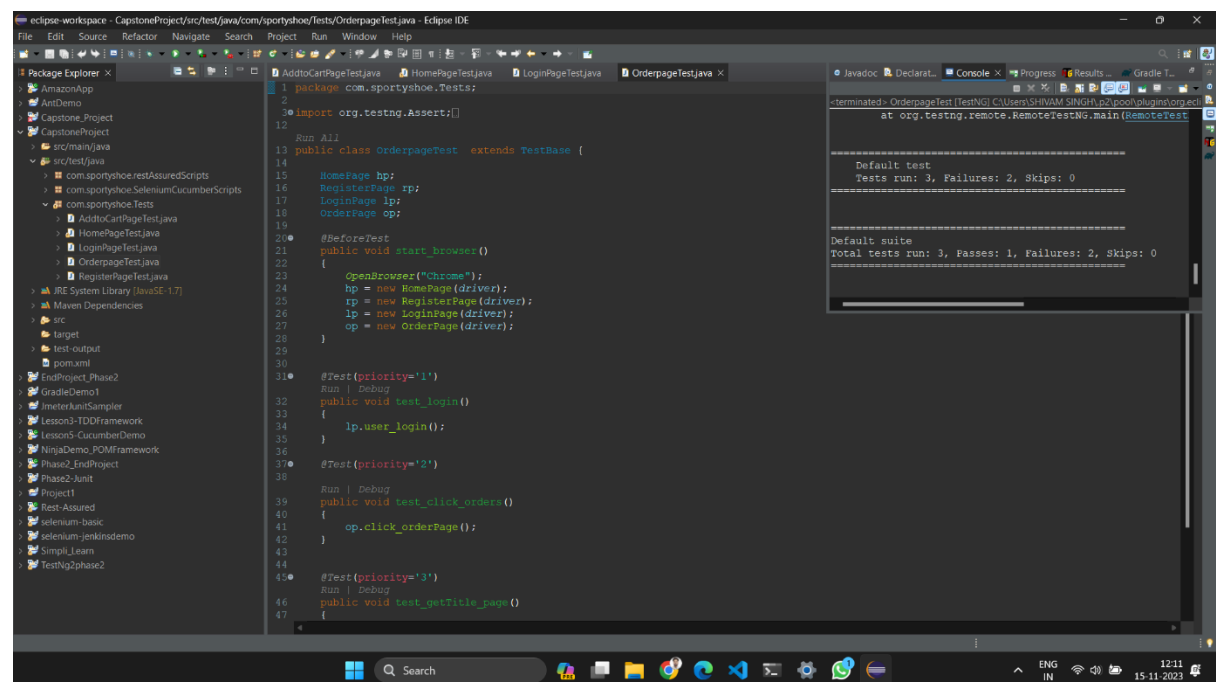Step 5.3: Add to cart test case

Step 5.4: HomePage Test

Step 5.5: Login Page Test

Step 5.6: OrderPage Test

Step 5.7: RegisterPage Test