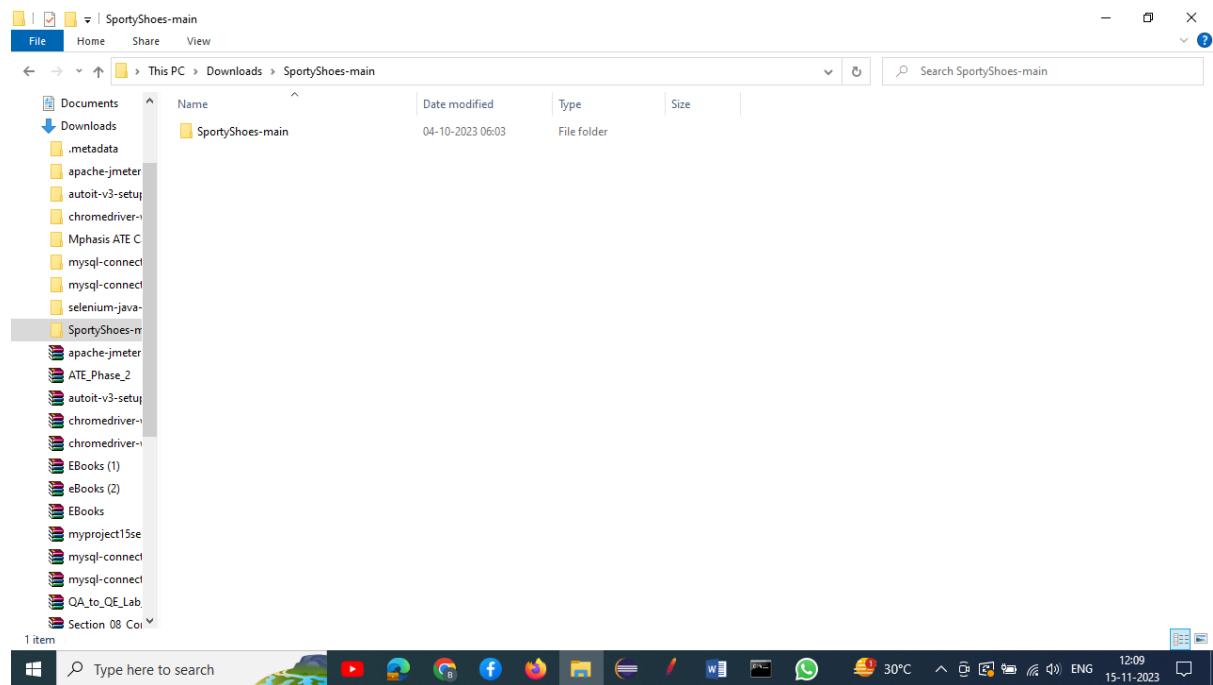


Steps to complete the Capstone project

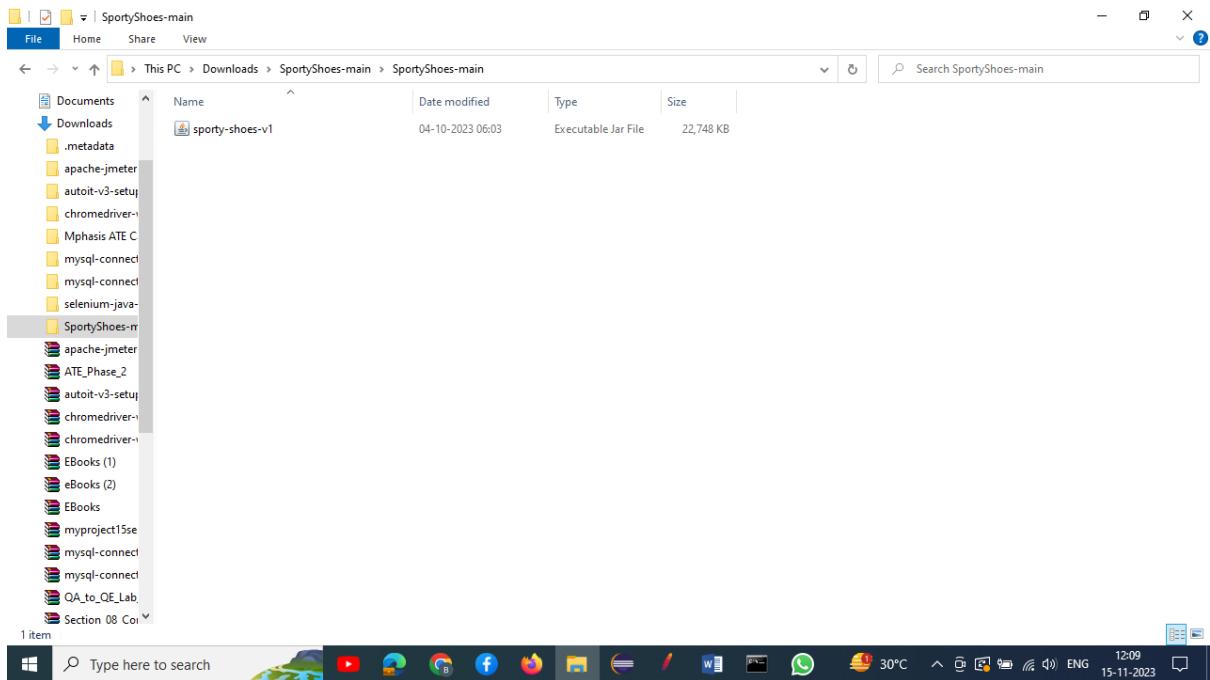
Step 1: Launch the Application under test:

- 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

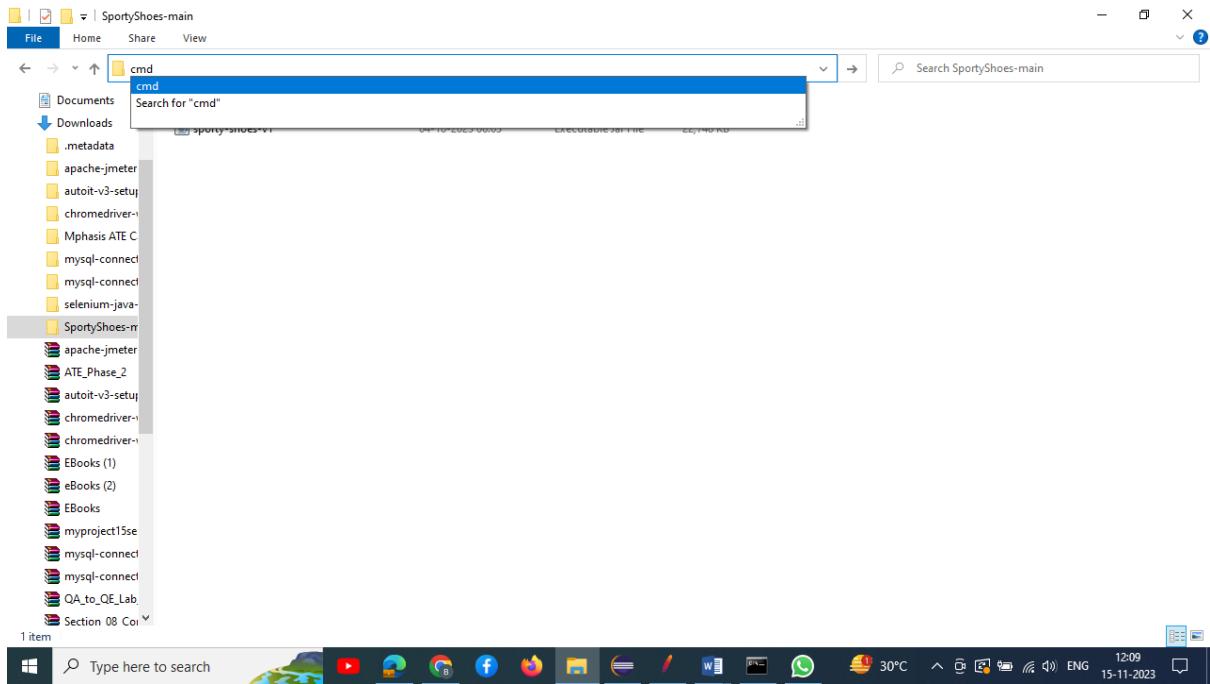


Go inside the folder SportyShoes-main and then again go in the folder SportyShoes-main

Go inside the folder where you see the sporty-shoes-v1.jar file



Start cmd prompt in the same folder



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
```

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

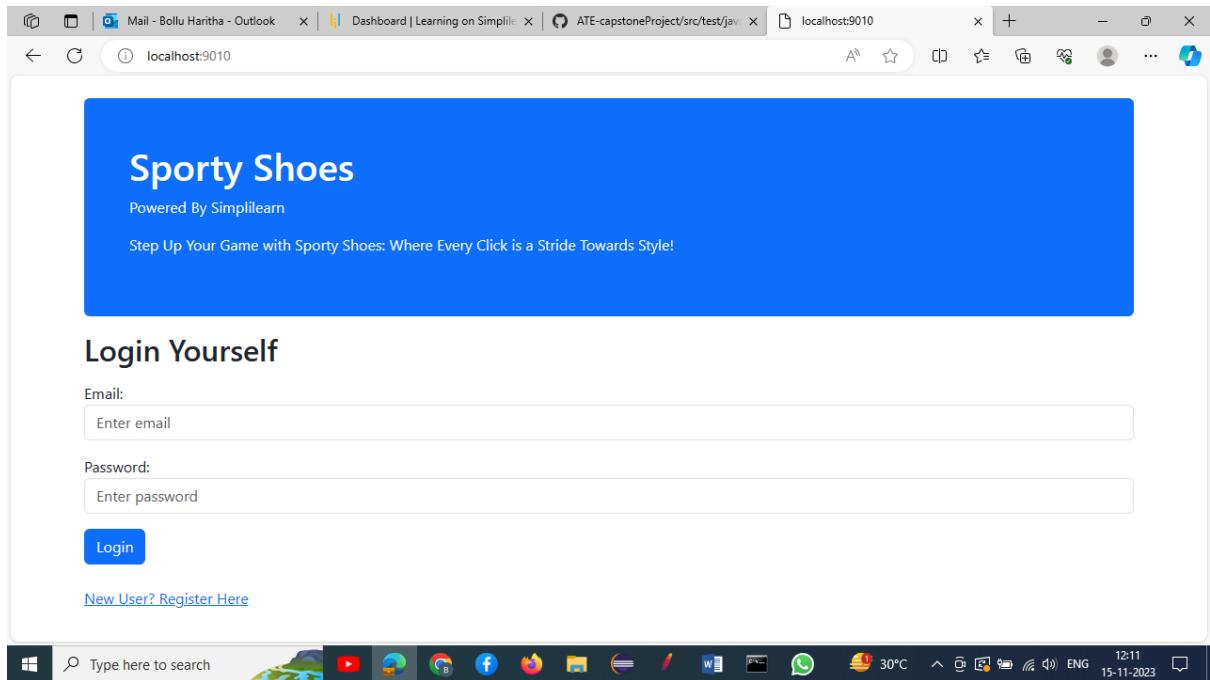
C:\Users\Haritha\Downloads\SportyShoes-main\SportyShoes-main>java -jar sporty-shoes-v1.jar
```

```
C:\Windows\System32\cmd.exe -java -jar sporty-shoes-v1.jar
Microsoft Windows [Version 10.0.19045.3570]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Haritha\Downloads\SportyShoes-main>java -jar sporty-shoes-v1.jar

:: Spring Boot ::          (v2.7.14)

2023-11-15 12:10:22.084 INFO 13164 --- [           main] c.s.sportyshoes.SportyShoesApplication : Starting SportyShoesApplication v1 using Java 11.0.19 on DESKTOP-5MGHVP1 with PID 13164 (C:\Users\Haritha\Downloads\SportyShoes-main\SportyShoes-main\sporty-shoes-v1.jar started by Haritha in C:\Users\Haritha\Downloads\SportyShoes-main\SportyShoes-main)
2023-11-15 12:10:22.092 INFO 13164 --- [           main] c.s.sportyshoes.SportyShoesApplication : No active profile set, falling back to 1 default profile : "default"
2023-11-15 12:10:25.048 INFO 13164 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 9010 (http)
2023-11-15 12:10:25.072 INFO 13164 --- [           main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-11-15 12:10:25.073 INFO 13164 --- [           main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.78]
2023-11-15 12:10:25.326 INFO 13164 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-11-15 12:10:25.326 INFO 13164 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 3017 ms
2023-11-15 12:10:25.837 INFO 13164 --- [           main] o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome page template: index
2023-11-15 12:10:26.234 INFO 13164 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 9010 (http) with context path ""
2023-11-15 12:10:26.261 INFO 13164 --- [           main] c.s.sportyshoes.SportyShoesApplication : Started SportyShoesApplication in 5.488 seconds (JVM running for 7.167)
```



1. Automate the below API endpoints using Rest-Assured

- Retrieve the list of all products in the store.
- Retrieve the list of all registered users.
- Add the product.
- Delete the product.
- Update the product

Create a Maven Project in eclipse. And dependencies in POM file.

```

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>capstoneProject</groupId>
  <artifactId>capstoneProject</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>capstoneProject</name>
  <!-- FIXME change it to the project's website -->
  <url>http://www.example.com</url>
  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <maven.compiler.source>1.7</maven.compiler.source>
    <maven.compiler.target>1.7</maven.compiler.target>
  </properties>
  <dependencies>
    <dependency>
      <groupId>org.apache.logging.log4j</groupId>
      <artifactId>log4j-api</artifactId>
      <version>2.14.1</version>
    </dependency>
    <!-- https://mvnrepository.com/artifact/org.apache.logging.log4j/log4j-core -->
    <dependency>
      <groupId>org.apache.logging.log4j</groupId>
      <artifactId>log4j-core</artifactId>
      <version>2.14.1</version>
    </dependency>
    <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
  </dependencies>

```

BoluHaritha - capstoneProject/pom.xml - Eclipse IDE

```
File Edit Source Navigate Search Project Run Window Help
```

capstoneProject/pom.xml

```
34      <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
35      <dependency>
36          <groupId>io.rest-assured</groupId>
37          <artifactId>rest-assured</artifactId>
38          <version>5.3.0</version>
39          <scope>test</scope>
40      </dependency>
41
42
43      <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured-common -->
44      <dependency>
45          <groupId>io.rest-assured</groupId>
46          <artifactId>rest-assured-common</artifactId>
47          <version>5.3.0</version>
48      </dependency>
49
50      <!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured-all -->
51      <dependency>
52          <groupId>io.rest-assured</groupId>
53          <artifactId>rest-assured-all</artifactId>
54          <version>5.3.0</version>
55          <scope>test</scope>
56      </dependency>
57
58      <!-- https://mvnrepository.com/artifact/org.json/json -->
59      <dependency>
60          <groupId>org.json</groupId>
61          <artifactId>json</artifactId>
62          <version>20180813</version>
63      </dependency>
64
65      <!-- https://mvnrepository.com/artifact/org.hamcrest/hamcrest -->
66      <dependency>
67          <groupId>org.hamcrest</groupId>
68          <artifactId>hamcrest</artifactId>
69
70
71
72
73
74
75
76
77
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82
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98
```

Overview | Dependencies | Dependency Hierarchy | Effective POM | pom.xml | Writable | Smart Insert | 1:1:0

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BoluHaritha - capstoneProject/pom.xml - Eclipse IDE

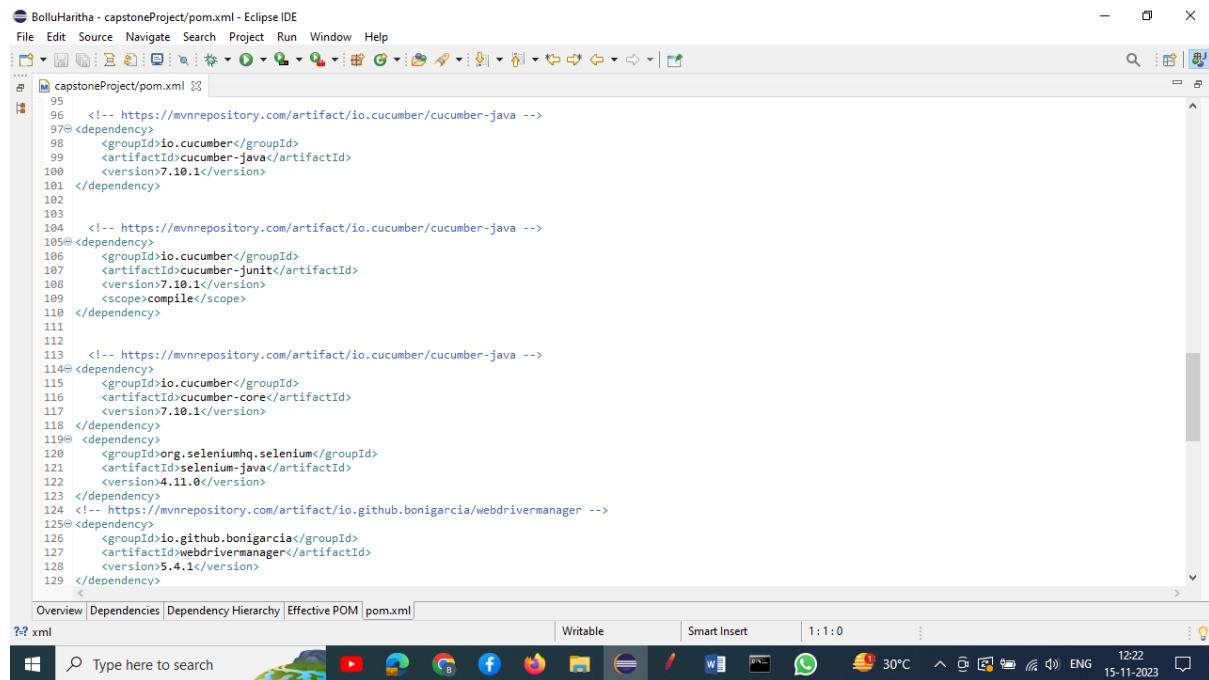
```
File Edit Source Navigate Search Project Run Window Help
```

capstoneProject/pom.xml

```
65      <!-- https://mvnrepository.com/artifact/org.hamcrest/hamcrest -->
66      <dependency>
67          <groupId>org.hamcrest</groupId>
68          <artifactId>hamcrest</artifactId>
69          <version>2.2</version>
70          <scope>test</scope>
71      </dependency>
72
73      <!-- https://mvnrepository.com/artifact/io.rest-assured/json-path -->
74      <dependency>
75          <groupId>io.rest-assured</groupId>
76          <artifactId>json-path</artifactId>
77          <version>5.3.0</version>
78          <scope>test</scope>
79      </dependency>
80
81      <!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-databind -->
82      <dependency>
83          <groupId>com.fasterxml.jackson.core</groupId>
84          <artifactId>jackson-databind</artifactId>
85          <version>2.15.2</version>
86      </dependency>
87
88      <!-- https://mvnrepository.com/artifact/org.testng/testng -->
89      <dependency>
90          <groupId>org.testng</groupId>
91          <artifactId>testing</artifactId>
92          <version>7.7.1</version>
93          <scope>test</scope>
94      </dependency>
95
96      <!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
97      <dependency>
98          <groupId>io.cucumber</groupId>
```

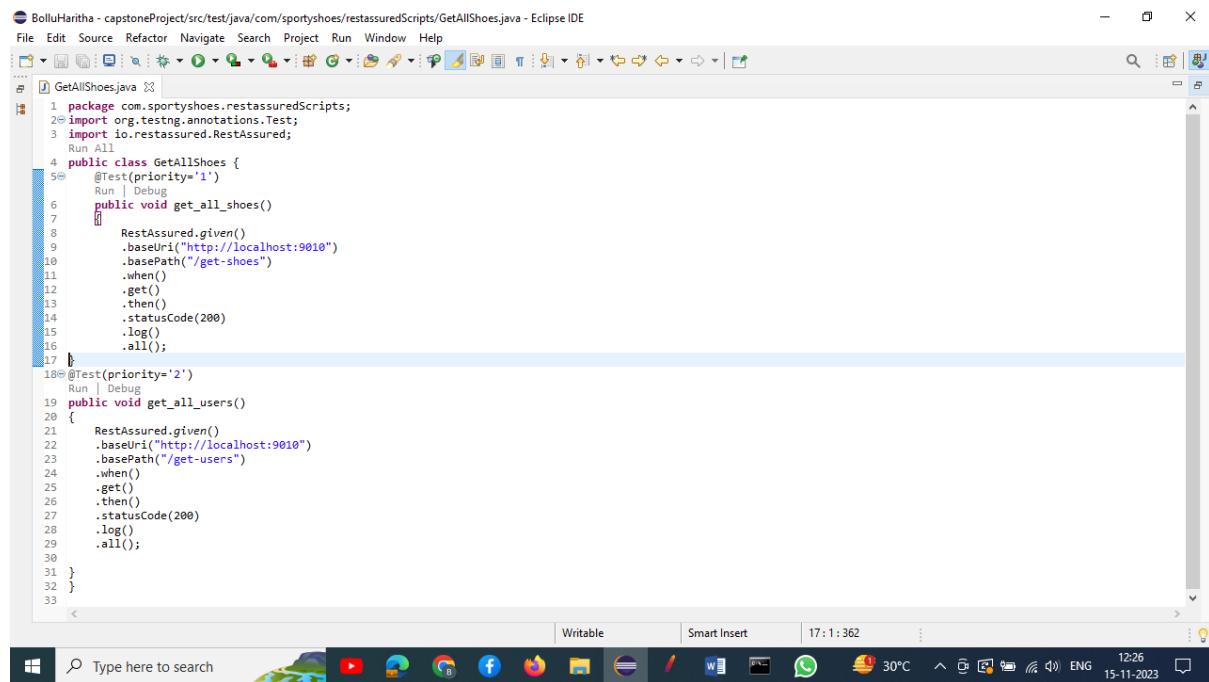
Overview | Dependencies | Dependency Hierarchy | Effective POM | pom.xml | Writable | Smart Insert | 1:1:0

?? xml Type here to search 30°C 12:22 ENG 15-11-2023



```
95      <!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
96    <dependency>
97      <groupId>io.cucumber</groupId>
98      <artifactId>cucumber-java</artifactId>
99      <version>7.10.1</version>
100     </dependency>
101
102
103   <!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
104 <dependency>
105   <groupId>io.cucumber</groupId>
106   <artifactId>cucumber-junit</artifactId>
107   <version>7.10.1</version>
108   <scope>compile</scope>
109 </dependency>
110
111
112   <!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
113 <dependency>
114   <groupId>io.cucumber</groupId>
115   <artifactId>cucumber-core</artifactId>
116   <version>7.10.1</version>
117 </dependency>
118
119 <dependency>
120   <groupId>org.seleniumhq.selenium</groupId>
121   <artifactId>selenium-java</artifactId>
122   <version>4.11.0</version>
123 </dependency>
124 <!-- https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager -->
125 <dependency>
126   <groupId>io.github.bonigarcia</groupId>
127   <artifactId>webdrivermanager</artifactId>
128   <version>5.4.1</version>
129 </dependency>
130
```

Create a package com.sportyshoes.restassuredScripts. In that Package create a class called as GetAllShoes.java



```
1 package com.sportyshoes.restassuredScripts;
2 import org.junit.Test;
3 import io.restassured.RestAssured;
4 public class GetAllShoes {
5     @Test(priority='1')
6     public void getAll_shoes()
7     {
8         RestAssured.given()
9             .baseUri("http://localhost:9010")
10            .basePath("/get-shoes")
11            .when()
12            .get()
13            .then()
14            .statusCode(200)
15            .log()
16            .all();
17    }
18    @Test(priority='2')
19    public void getAll_users()
20    {
21        RestAssured.given()
22            .baseUri("http://localhost:9010")
23            .basePath("/get-users")
24            .when()
25            .get()
26            .then()
27            .statusCode(200)
28            .log()
29            .all();
30    }
31 }
32 }
33
```

Create another class in the same package called as PostandPutNewShoe.

BoluHaritha - capstoneProject/src/test/java/com/sportyshoes/restassuredScripts/PostandPutNewShoe.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
src/main/java
src/test/java
com.sportyshoe.Tests
com.sportyshoes.restassuredScripts
GetAllShoes.java
PostandPutNewShoe.java
com.sportyshoes.seleniumcucumberScripts
JRE System Library [JavaSE-1.7]
Maven Dependencies
src
target
test-output
pom.xml
JUnitMeterSampler
Lesson3-EndProject
Lesson3-TDDFramework
LessonPracticeProject
Lesson5-CucumberDemo
LessonEndProject-Cucumber
LessonEnd Project-JUnit
lib
NinjaDemo-POMframework
Phase1-ATE-Java Projects
Phase2-ATE-JUnit
PhaseEndProject-Cucumber
RedBusNinjaDemo-POMFramework
PostandPutNewShoe.java

1 package com.sportyshoes.restassuredScripts;
2 import org.testng.annotations.Test;
3 import io.restassured.RestAssured;
4 public class PostandPutNewShoe {
5     @Test
6         public void Add_new_Product()
7     {
8         RestAssured.given()
9             .baseUri("http://localhost:9010")
10            .basePath("/add-shoe")
11            .queryParam("id", "1020")
12            .queryParam("image", "www.image.com")
13            .queryParam("name", "Nike")
14            .queryParam("category", "Running")
15            .queryParam("sizes", "5,6,7")
16            .queryParam("price", "2000")
17            .when()
18            .post()
19            .then()
20            .log().all();
21    }
22    @Test(priority=2)
23        public void update_a_product()
24    {
25        RestAssured.given()
26            .baseUri("http://localhost:9010")
27            .basePath("/update-shoe")
28            .queryParam("id", "1020")
29            .queryParam("image", "www.image123.com")
30            .queryParam("name", "Reebok")
31            .queryParam("category", "Running")
32            .queryParam("sizes", "5,6,7")
33            .when()
34            .put()
35            .then()
36            .log().all();
37    }
38    @Test(priority=3)
39        public void delete_product()
40    {
41        RestAssured.given()
42            .baseUri("http://localhost:9010")
43            .basePath("/delete-shoe")
44            .queryParam("id", "1020")
45            .when().delete()
46            .then().log().all();
47    }
48}

```

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BoluHaritha - capstoneProject/src/test/java/com/sportyshoes/restassuredScripts/PostandPutNewShoe.java - Eclipse IDE

```

File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
src/main/java
src/test/java
com.sportyshoe.Tests
com.sportyshoes.restassuredScripts
GetAllShoes.java
PostandPutNewShoe.java
com.sportyshoes.seleniumcucumberScripts
JRE System Library [JavaSE-1.7]
Maven Dependencies
src
target
test-output
pom.xml
JUnitMeterSampler
Lesson3-EndProject
Lesson3-TDDFramework
LessonPracticeProject
Lesson5-CucumberDemo
LessonEndProject-Cucumber
LessonEnd Project-JUnit
lib
NinjaDemo-POMframework
Phase1-ATE-Java Projects
Phase2-ATE-JUnit
PhaseEndProject-Cucumber
RedBusNinjaDemo-POMFramework
PostandPutNewShoe.java

1 package com.sportyshoes.restassuredScripts;
2 import org.testng.annotations.Test;
3 import io.restassured.RestAssured;
4 public class PostandPutNewShoe {
5     @Test
6         public void update_a_product()
7     {
8         RestAssured.given()
9             .baseUri("http://localhost:9010")
10            .basePath("/update-shoe")
11            .queryParam("id", "1020")
12            .queryParam("image", "www.image123.com")
13            .queryParam("name", "Reebok")
14            .queryParam("category", "Running")
15            .queryParam("sizes", "5,6,7")
16            .queryParam("price", "2500")
17            .when()
18            .put()
19            .then()
20            .log().all();
21    }
22    @Test(priority=2)
23        public void delete_product()
24    {
25        RestAssured.given()
26            .baseUri("http://localhost:9010")
27            .basePath("/delete-shoe")
28            .queryParam("id", "1020")
29            .when().delete()
30            .then().log().all();
31    }
32}

```

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2. Create Selenium scripts using TestNG to test all the pages in the web app that will automate:

- Login page
- Registration Page
- Add Product to cart page.
- Place Order Page

Create a package in the same capstoneProject called as com.sportyshoes.seleniumcucumberScripts . In that Package create a class as TestBase. This is the base class.

BoluHaritha - capstoneProject/src/test/java/com/sportyshoes/seleniumcucumberScripts/TestBase.java - Eclipse IDE

```
1 package com.sportyshoes.seleniumcucumberScripts;
2 import org.openqa.selenium.WebDriver;
3
4 public class TestBase {
5
6     public static WebDriver driver;
7
8     public static void OpenBrowser(String browser)
9     {
10        if(browser == "Chrome")
11        {
12            driver = new ChromeDriver();
13        }
14
15        if(browser == "Firefox")
16        {
17            driver = new FirefoxDriver();
18        }
19
20        driver.manage().window().maximize();
21        driver.manage().deleteAllCookies();
22        driver.get("http://localhost:9010/");
23
24    }
25
26    public static void closebrowser()
27    {
28        driver.close();
29    }
30
31 }
32
33 }
34
```

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In the same package create another class called as HomePage.

BoluHaritha - capstoneProject/src/test/java/com/sportyshoes/seleniumcucumberScripts/HomePage.java - Eclipse IDE

```
1 package com.sportyshoes.seleniumcucumberScripts;
2 import org.openqa.selenium.WebDriver;
3
4 public class HomePage extends TestBase {
5     @FindBy(xpath="//div[@class='container mt-3']/descendant::p[1]")
6     WebElement text;
7     @FindBy(linkText="New User? Register Here")
8     WebElement registerLink;
9
10    public HomePage(WebDriver driver) {
11        PageFactory.initElements(driver, this);
12    }
13
14    public String getURL_page()
15    {
16        String URLnew = driver.getCurrentUrl();
17        return URLnew;
18    }
19
20    public String Validate_Text_On_Page()
21    {
22        String pageText = text.getText();
23        System.out.println(pageText);
24        return pageText;
25    }
26
27    public void click_register_link()
28    {
29        registerLink.click();
30    }
31
32
33 }
34
35
```

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Create another package in the same capstoneproject called as com.sportyshoe.Tests . In that Package create a class called as HomePageTest.java

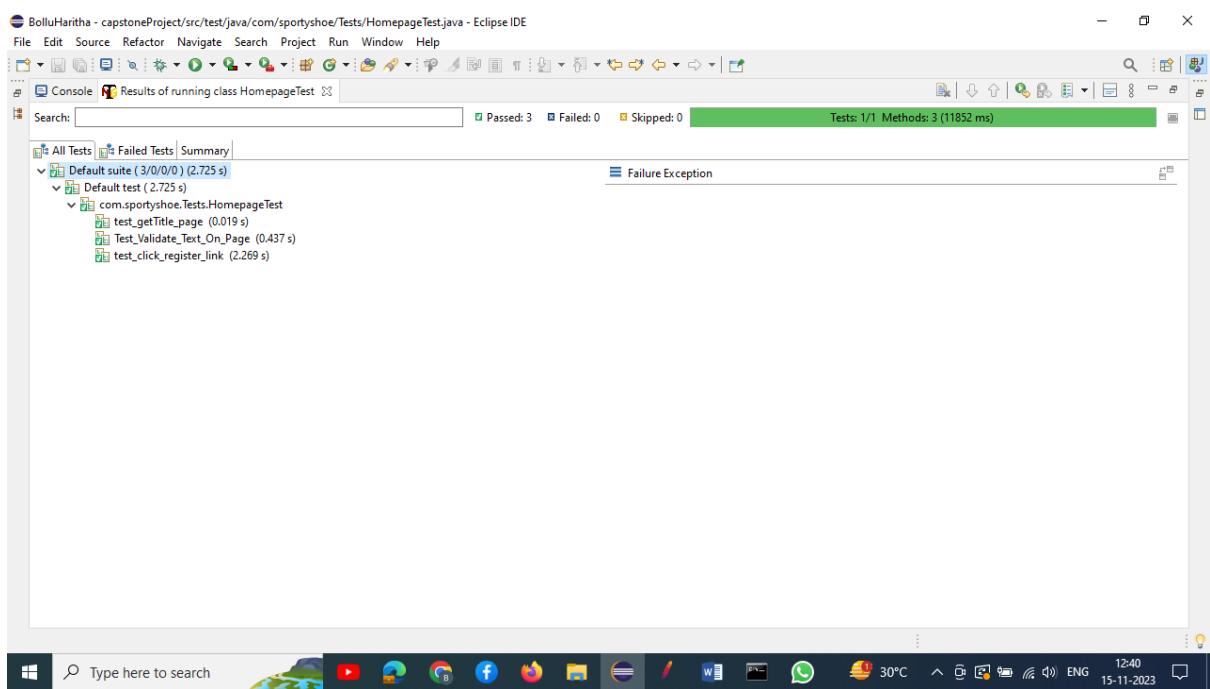
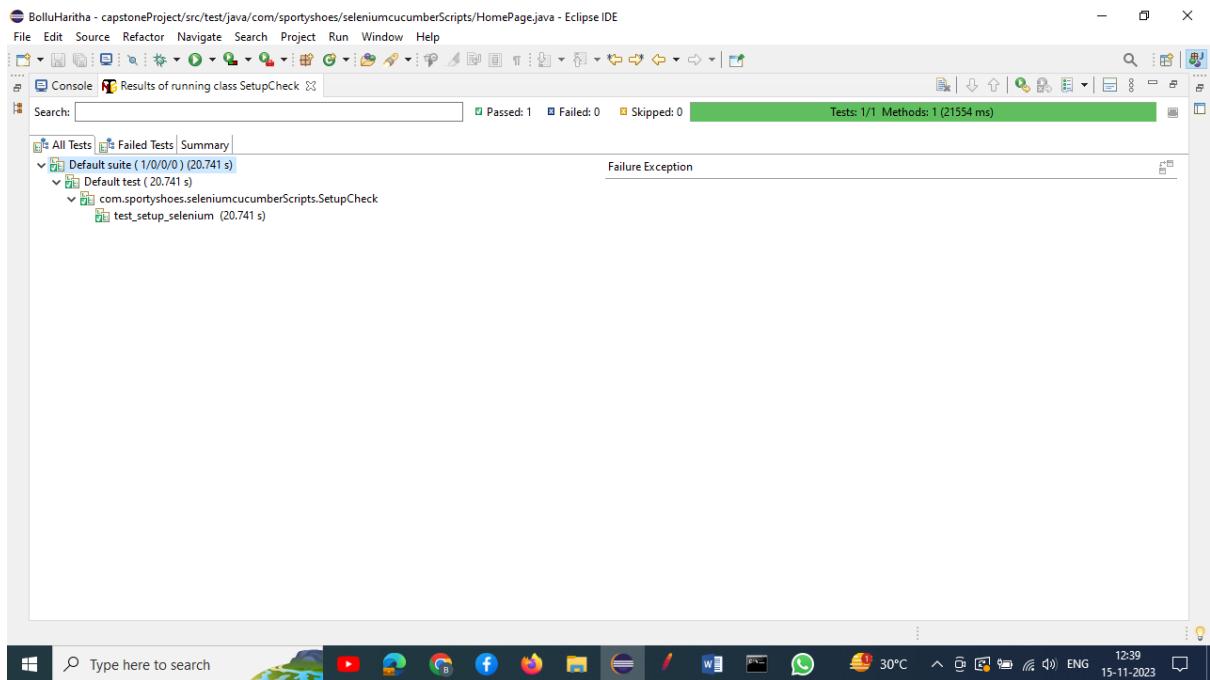
The screenshot shows the Eclipse IDE interface with the following details:

- Title Bar:** BolluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/HomepageTest.java - Eclipse IDE
- Menu Bar:** File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help
- Toolbar:** Includes icons for New, Open, Save, Cut, Copy, Paste, Find, Replace, and various project management tools.
- Left Sidebar:** Shows the package structure: com.sportyshoe.Tests.
- Code Editor:** Displays the `HomepageTest.java` file content. The code is a Selenium test class for a homepage, using annotations like `@BeforeTest`, `@Test(priority=1)`, and `@Test(priority=2)`. It includes methods to validate page title and text, and a method to click a register link.
- Bottom Status Bar:** Shows "Writable", "Smart Insert", "3:1:74", and system status icons for battery, signal, and temperature (30°C).
- Taskbar:** Shows the Start button, a search bar with placeholder "Type here to search", and pinned application icons for YouTube, Google, Facebook, Firefox, and others.

BolluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/HomepageTest.java - Eclipse IDE

File Edit Source Refactor Search Project Run Window Help

```
1 *HomepageTest.java
2 import org.testng.Assert;
3 Run All
4 public class HomepageTest extends TestBase {
5     HomePage hp;
6     @BeforeTest
7     public void start_browser()
8     {
9         OpenBrowser("Chrome");
10        hp = new HomePage(driver);
11    }
12    @Test(priority='1')
13    Run | Debug
14    public void test_getTitle_page()
15    {
16        String expected = "http://localhost:9010/";
17        String Actual = hp.getUrl_page();
18        Assert.assertEquals(Actual, expected);
19    }
20    @Test(priority='2')
21    Run | Debug
22    public void Test_Validate_Text_On_Page()
23    {
24        String expected = "Powered By Simplilearn";
25        String actualText = hp.Validate_Text_On_Page();
26        Assert.assertEquals(actualText, expected);
27    }
28    @Test(priority='3')
29    Run | Debug
30    public void test_click_register_link() throws InterruptedException
31    {
32        Thread.sleep(1500);
33        hp.click_register_link();
34    }
35}
36}
37
```



In com.sportyshoes.seleniumcucumberScripts . Create a another class as LoginPage

BolluHaritha - capstoneProject/src/test/java/com/sportyshoes/seleniumcucumberScripts/LoginPage.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
LoginPage.java | ...
1 package com.sportyshoes.seleniumcucumberScripts;
2 import org.openqa.selenium.WebDriver;
3 public class LoginPage {
4     @FindBy(xpath="//input[@id='email']")
5     WebElement loginEmail;
6     @FindBy(xpath="//input[@id='password']")
7     WebElement loginpassword;
8     @FindBy(xpath="//button[@type='submit']")
9     WebElement loginbtn;
10    @FindBy(linkText="Cart")
11    WebElement clickCart;
12    public LoginPage(WebDriver driver) {
13        PageFactory.initElements(driver, this);
14    }
15    public void user_login()
16    {
17        loginEmail.sendKeys("sonal@gmail.com");
18        loginpassword.sendKeys("sonal@123");
19        loginbtn.click();
20    }
21    public void click_cart()
22    {
23        clickCart.click();
24    }
25}
26
27
28
29
30}
31
```

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In com.sportyshoe.Tests . In that Package create a class called as LoginPageTest.java

BolluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/LoginPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
LoginPage.java | LoginPageTest.java | ...
1 package com.sportyshoe.Tests;
2 import org.testng.Assert;
3
4 public class LoginPageTest extends TestBase {
5     HomePage hp;
6     RegisterPage rp;
7     LoginPage lp;
8     @BeforeTest
9     public void start_browser()
10    {
11        OpenBrowser("Chrome");
12        hp = new HomePage(driver);
13        rp = new RegisterPage(driver);
14        lp = new LoginPage(driver);
15    }
16    @Test(priority=1)
17    Run | Debug
18    public void test_login()
19    {
20        lp.user_login();
21    }
22    @Test(priority=2)
23    Run | Debug
24    public void test_getTitle_page()
25    {
26        String expected = "http://localhost:9010/login";
27        String Actual = hp.getURL_page();
28        Assert.assertEquals(Actual, expected);
29    }
30    @Test(priority=3)
31    Run | Debug
32    public void Test_validate_registration_Text()
33    {
34        String expected = "Hello sonal !";
35        String actualText = rp.validate_registration_Text();
36        Assert.assertEquals(actualText, expected);
37}
38}
```

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BoluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/LoginPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
LoginPage.java LoginPageTest.java
16     OpenBrowser("Chrome");
17     hp = new HomePage(driver);
18     rp = new RegisterPage(driver);
19     lp = new LoginPage(driver);
20 }
21 @Test(priority=1)
22 Run | Debug
23 public void test_login()
24 {
25     lp.user_login();
26 }
27 @Test(priority=2)
28 Run | Debug
29 public void test_getTitle_page()
30 {
31     String expected = "http://localhost:9010/login";
32     String Actual = hp.getURL_page();
33     Assert.assertEquals(Actual, expected);
34 }
35 @Test(priority=3)
36 Run | Debug
37 public void Test_validate_registration_Text()
38 {
39     String expected = "Hello sonal !";
40     String actualText = rp.validate_registration_Text();
41     Assert.assertEquals(actualText, expected);
42 }
43 public void test_click_cart()
44 {
45     lp.click_cart();
46 }
47
```

Type here to search 30°C 12:41 ENG 15-11-2023

localhost:9010/register

Chrome is being controlled by automated test software.

Sporty Shoes

Powered By Simplilearn

Step Up Your Game with Sporty Shoes: Where Every Click is a Stride Towards Style!

Its Wed Nov 15 12:41:48 IST 2023 !

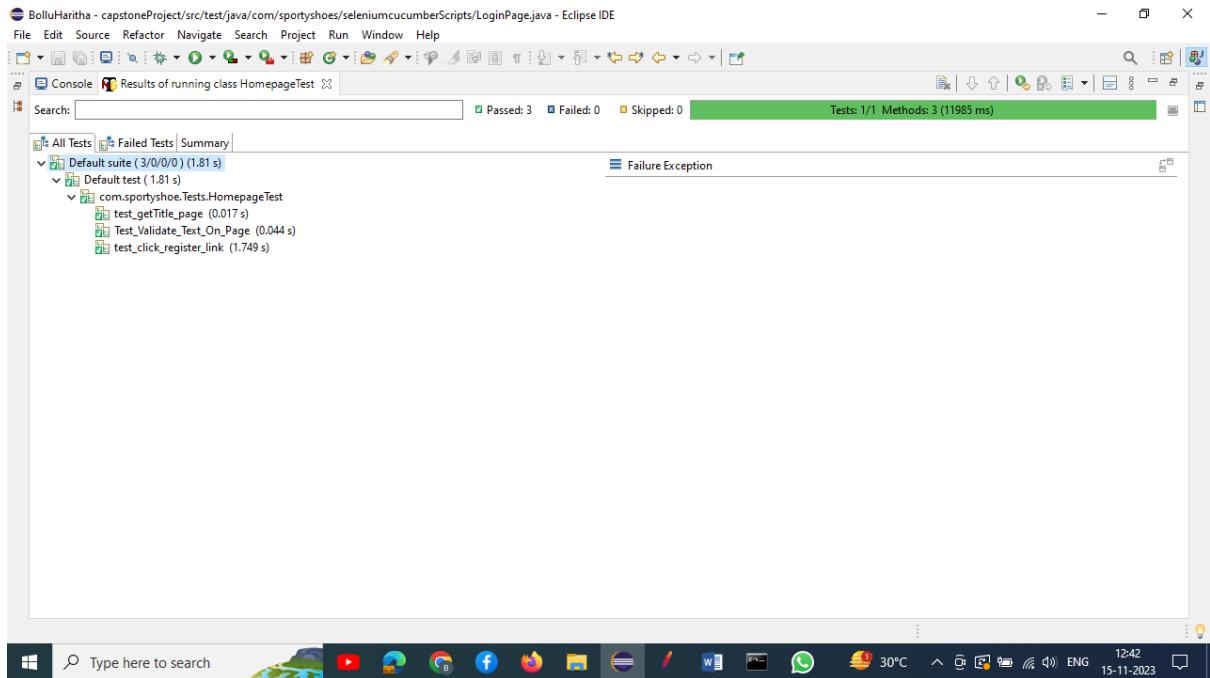
Register Yourself

Name:

Email:

Password:

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In com.sportyshoes.seleniumcucumberScripts . Create a another class as RegisterPage.java

```
1 package com.sportyshoes.seleniumcucumberScripts;
2 import org.openqa.selenium.WebDriver;
3 public class RegisterPage extends TestBase {
4     @FindBy(xpath="//input[@id='name']")
5     WebElement registername;
6     @FindBy(xpath="//input[@id='email']")
7     WebElement registeremail;
8     @FindBy(xpath="//input[@id='password']")
9     WebElement registerpassword;
10    @FindBy(xpath="//button[@type='submit']")
11    WebElement registerBtn;
12    @FindBy(xpath="//div[@class='mt-4 p-5 bg-primary text-white rounded']/descendant::p[3]")
13    WebElement userText;
14    public RegisterPage(WebDriver driver) {
15        PageFactory.initElements(driver, this);
16    }
17    public void register_user()
18    {
19        registername.sendKeys("sonal");
20        registeremail.sendKeys("sonal@gmail.com");
21        registerpassword.sendKeys("sonal@123");
22        registerBtn.click();
23    }
24    public String validate_registration_URL()
25    {
26        String register_url = driver.getCurrentUrl();
27        return register_url;
28    }
29    public String validate_registration_Text()
30    {
31        String user_name = userText.getText();
32        return user_name;
33    }
34}
```

In com.sportyshoe.Tests . In that Package create a class called as RegisterPageTest.java

BoluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/RegisterPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
RegisterPage.java RegisterPageTest.java
1 package com.sportyshoe.Tests;
2 import static org.testng.Assert.assertEquals;
3 import org.testng.Assert;
4 import org.testng.annotations.BeforeTest;
5 import org.testng.annotations.Test;
6 import com.sportyshoes.seleniumcucumberScripts.HomePage;
7 import com.sportyshoes.seleniumcucumberScripts.RegisterPage;
8 import com.sportyshoes.seleniumcucumberScripts.TestBase;
9 Run All
10 public class RegisterPageTest extends TestBase {
11     HomePage hp;
12     RegisterPage rp;
13
14     @BeforeTest
15     public void start_browser()
16     {
17         OpenBrowser("Chrome");
18         hp = new HomePage(driver);
19         rp = new RegisterPage(driver);
20     }
21
22     @Test(priority='1')
23     Run | Debug
24     public void test_click_register_link() throws InterruptedException
25     {
26         Thread.sleep(1500);
27         hp.click_register_link();
28     }
29     @Test(priority='2')
30     Run | Debug
31     public void test_getTitle_page()
32     {
33         String expected = "http://localhost:9010/register";
34         String Actual = hp.getURL_page();
35     }

```

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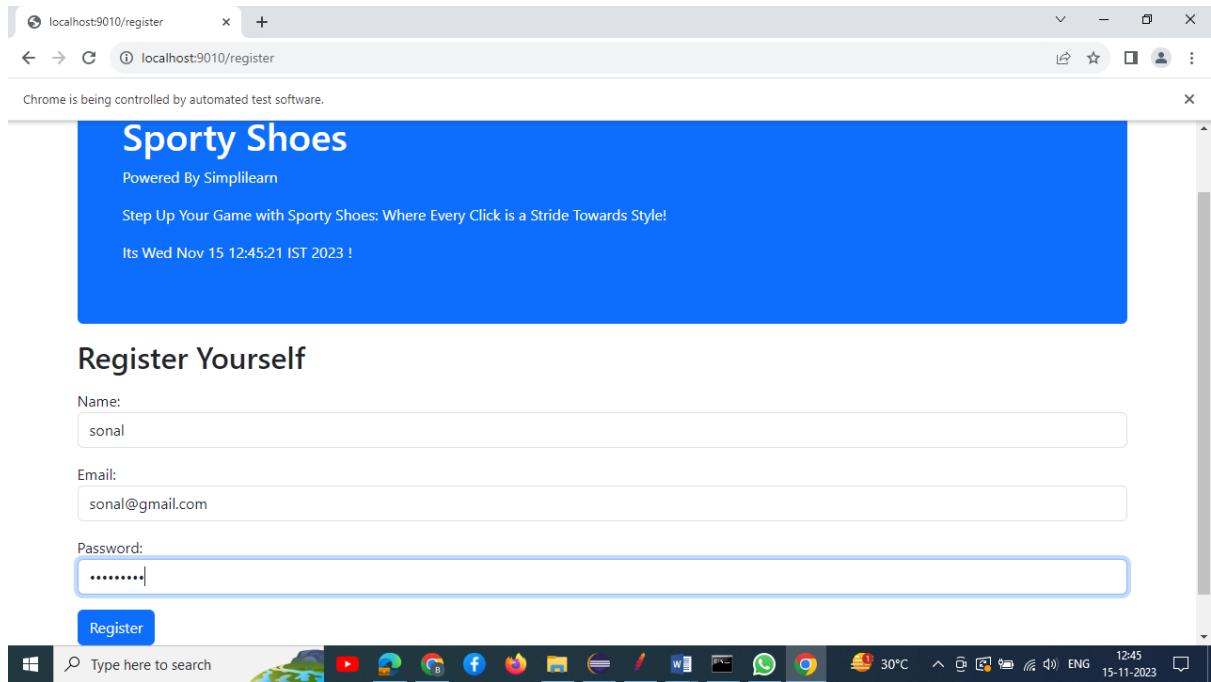
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BoluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/RegisterPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
RegisterPage.java RegisterPageTest.java
30     public void test_getTitle_page()
31     {
32         String expected = "http://localhost:9010/register";
33         String Actual = hp.getURL_page();
34         Assert.assertEquals(Actual, expected);
35     }
36
37     @Test(priority='3')
38     Run | Debug
39     public void Test_register_user()
40     {
41         rp.register_user();
42     }
43
44     @Test(priority='4')
45     Run | Debug
46     public void Test_validate_registration_URL()
47     {
48         String expected = "http://localhost:9010/register-user";
49         String Actual = rp.validate_registration_URL();
50         assertEquals(Actual, expected);
51     }
52     @Test(priority='5')
53     Run | Debug
54     public void Test_validate_registration_Text()
55     {
56         String expected = "Hello sonal !";
57         String actualText = rp.validate_registration_Text();
58         Assert.assertEquals(actualText, expected);
59     }
60
61 }
62
```

Writable Smart Insert 9:1:363

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In com.sportyshoes.seleniumcucumberScripts . Create a another class as AddtoCartPage.java

```

BolluHaritha - capstoneProject/src/test/java/com/sportyshoes/seleniumcucumberScripts/AddtoCartPage.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
AddtoCartPage.java
1 package com.sportyshoes.seleniumcucumberScripts;
2 import org.openqa.selenium.JavascriptExecutor;
3 public class AddtoCartPage {
4     @FindBy(xpath="//a[@id='shoe101']")
5     WebElement viewShoeBTN;
6     @FindBy(xpath = "//a[@id='cart101']")
7     WebElement addtocartBTN;
8     @FindBy(xpath="//div[@class='alert alert-success']/descendant::p[1]")
9     WebElement successText;
10    JavascriptExecutor executor;
11    public AddtoCartPage(WebDriver driver) {
12        PageFactory.initElements(driver, this);
13        executor = (JavascriptExecutor) driver;
14    }
15    public void add_product_to_cart() throws InterruptedException
16    {
17        executor.executeScript("arguments[0].click()", addtocartBTN);
18    }
19    public String validate_success_message()
20    {
21        String successtext = successText.getText();
22        return successtext;
23    }
24}

```

In com.sportyshoe.Tests . In that Package create a class called as AddtoCartPageTest.java

BoluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/AddtoCartPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
AddtoCartPage.java *AddtoCartPageTest.java
1 package com.sportyshoe.Tests;
2 import org.junit.Assert;
3 import org.junit.annotations.BeforeTest;
4 import org.junit.annotations.Test;
5 import com.sportyshoes.seleniumcucumberScripts.AddtoCartPage;
6 import com.sportyshoes.seleniumcucumberScripts.HomePage;
7 import com.sportyshoes.seleniumcucumberScripts.LoginPage;
8 import com.sportyshoes.seleniumcucumberScripts.RegisterPage;
9 import com.sportyshoes.seleniumcucumberScripts.TestBase;
Run All
10 public class AddtoCartPageTest extends TestBase {
11     HomePage hp;
12     RegisterPage rp;
13     LoginPage lp;
14     AddtoCartPage ac;
15     @BeforeTest
16     public void start_browser()
17     {
18         OpenBrowser("Chrome");
19         hp = new HomePage(driver);
20         rp = new RegisterPage(driver);
21         lp = new LoginPage(driver);
22         ac = new AddtoCartPage(driver);
23     }
24     @Test(priority='1')
25     Run | Debug
26     public void test_login()
27     {
28         lp.user_login();
29     }
30     @Test(priority='2')
31     Run | Debug
32     public void test_add_product_to_cart() throws InterruptedException
33     {
34         ac.add product to cart();
35     }
}
Writable Smart Insert 23:6:765
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```

BoluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/AddtoCartPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
AddtoCartPage.java *AddtoCartPageTest.java
14     AddtoCartPage ac;
15     @BeforeTest
16     public void start_browser()
17     {
18         OpenBrowser("Chrome");
19         hp = new HomePage(driver);
20         rp = new RegisterPage(driver);
21         lp = new LoginPage(driver);
22         ac = new AddtoCartPage(driver);
23     }
24     @Test(priority='1')
25     Run | Debug
26     public void test_login()
27     {
28         lp.user_login();
29     }
30     @Test(priority='2')
31     Run | Debug
32     public void test_add_product_to_cart() throws InterruptedException
33     {
34         ac.add_product_to_cart();
35     }
36     @Test(priority='3')
37     Run | Debug
38     public void test_validate_success_message()
39     {
40         String expected = "Message: Shoe Bluewave Running Shoes Added Successfully to Cart";
41         String actualText= ac.validate_success_message();
42         Assert.assertEquals(actualText, expected);
43     }
44
45 }
}
Writable Smart Insert 23:6:765
Type here to search 30°C 12:47 ENG 15-11-2023
```

In com.sportyshoes.seleniumcucumberScripts . Create a another class as OrderPage.java

BolluHaritha - capstoneProject/src/test/java/com/sportyshoes/seleniumcucumberScripts/PageObjectModel/OrderPage.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
OrderPage.java
1 package com.sportyshoes.seleniumcucumberScripts;
2 import org.openqa.selenium.WebDriver;
3 import org.openqa.selenium.WebElement;
4 import org.openqa.selenium.support.FindBy;
5 import org.openqa.selenium.support.PageFactory;
6
7 public class OrderPage {
8
9     @FindBy(linkText="Orders")
10    WebElement orderlink;
11
12
13    public OrderPage(WebDriver driver) {
14        PageFactory.initElements(driver, this);
15    }
16
17    public void click_orderPage()
18    {
19        orderlink.click();
20    }
21
22
23}
24
```

Type here to search 3:1:89 12:48 15-11-2023

In com.sportyshoe.Tests . In that Package create a class called as OrderPageTest.java

BolluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/OrderPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
OrderPage.java OrderPageTest.java
1 package com.sportyshoe.Tests;
2 import org.testng.Assert;
3 import org.testng.annotations.BeforeTest;
4 import org.testng.annotations.Test;
5 import com.sportyshoes.seleniumcucumberScripts.HomePage;
6 import com.sportyshoes.seleniumcucumberScripts.LoginPage;
7 import com.sportyshoes.seleniumcucumberScripts.OrderPage;
8 import com.sportyshoes.seleniumcucumberScripts.RegisterPage;
9 import com.sportyshoes.seleniumcucumberScripts.TestBase;
10
11 public class OrderPageTest extends TestBase {
12
13    HomePage hp;
14    RegisterPage rp;
15    LoginPage lp;
16    OrderPage op;
17
18    @BeforeTest
19    public void start_browser()
20    {
21        OpenBrowser("Chrome");
22        hp = new HomePage(driver);
23        rp = new RegisterPage(driver);
24        lp = new LoginPage(driver);
25        op = new OrderPage(driver);
26    }
27
28
29    @Test(priority='1')
30    public void test_login()
31    {
32        lp.user_login();
33    }
34}
```

Type here to search 3:1:58 12:49 15-11-2023

BoluHaritha - capstoneProject/src/test/java/com/sportyshoe/Tests/OrderPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

```
OrderPage.java OrderPageTest.java
```

```
21     OpenBrowser("Chrome");
22     hp = new HomePage(driver);
23     rp = new RegisterPage(driver);
24     lp = new LoginPage(driver);
25     op = new OrderPage(driver);
26 }
27
28 @Test(priority='1')
29 Run | Debug
30 public void test_login()
31 {
32     lp.user_login();
33 }
34
35 @Test(priority='2')
36 Run | Debug
37 public void test_click_orders()
38 {
39     op.click_orderPage();
40 }
41
42 @Test(priority='3')
43 Run | Debug
44 public void test_getTitle_page()
45 {
46     String expected = "http://localhost:9010/orders";
47     String Actual = hp.getURL_page();
48     Assert.assertEquals(Actual, expected);
49 }
50
51 }
52 }
```

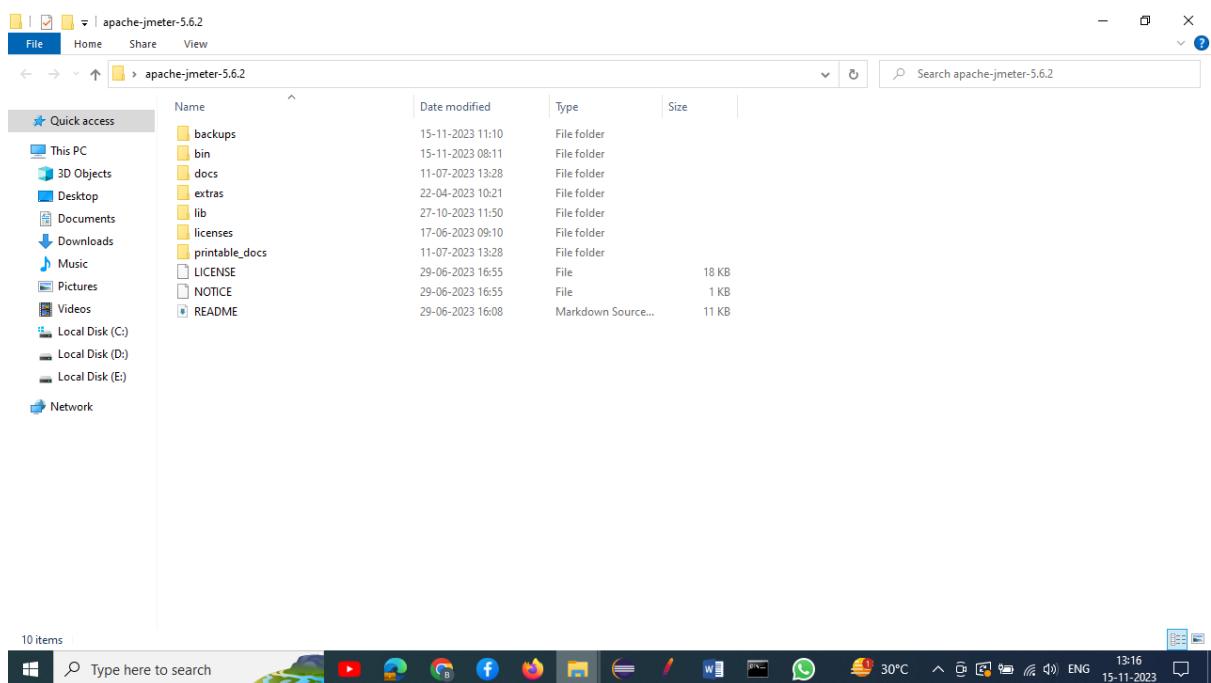
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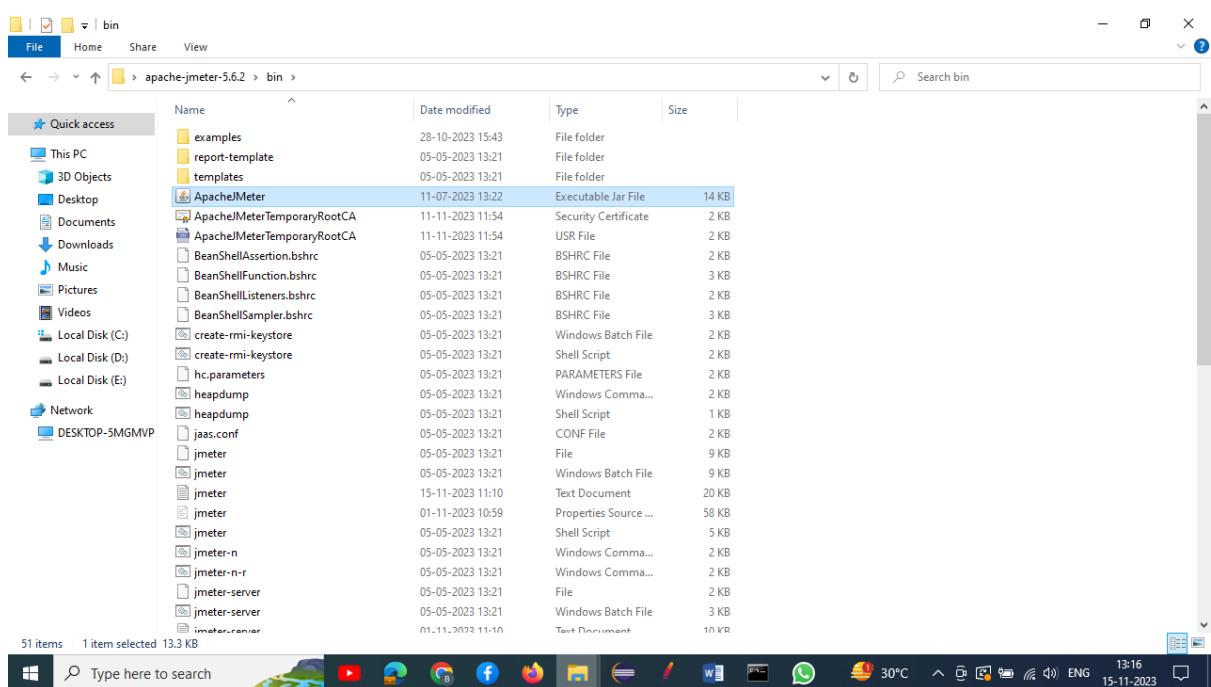
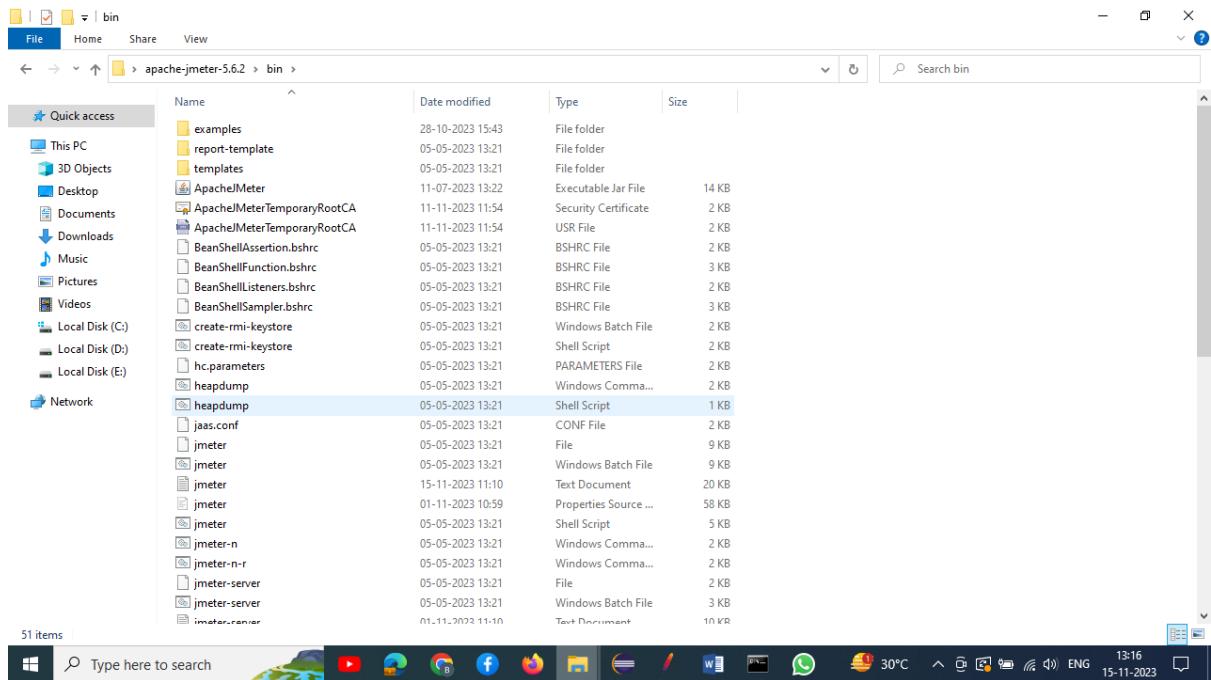
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Run | Debug 30°C ENG 12:49 15-11-2023

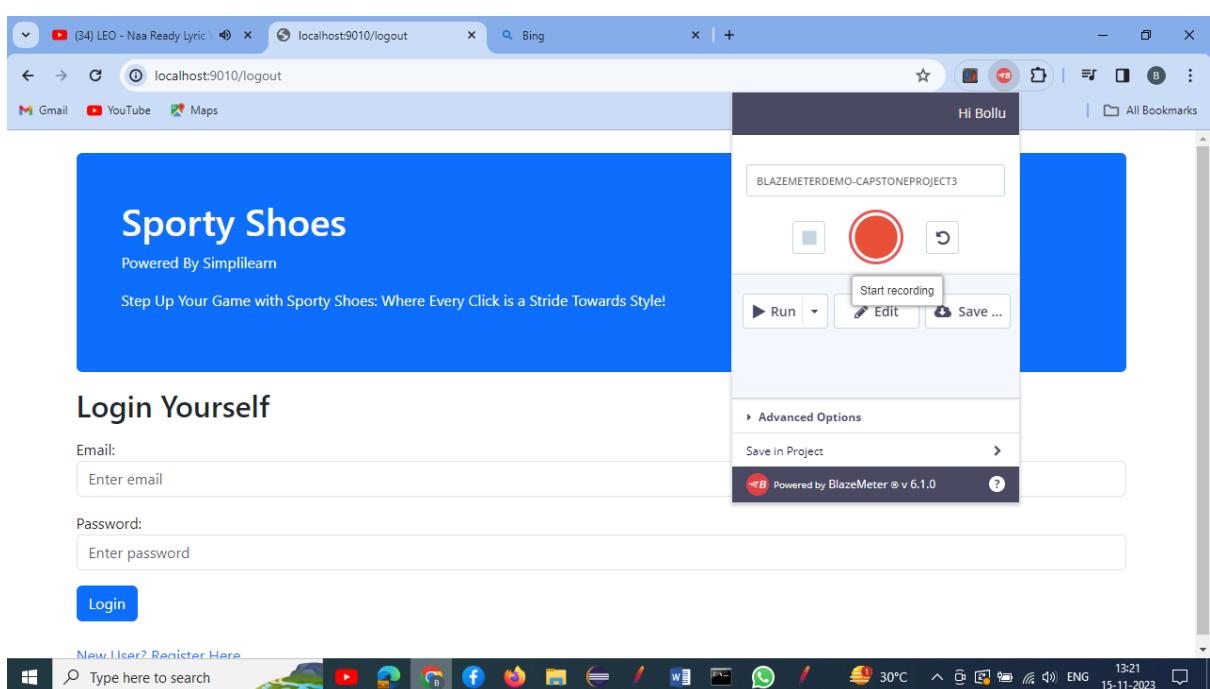
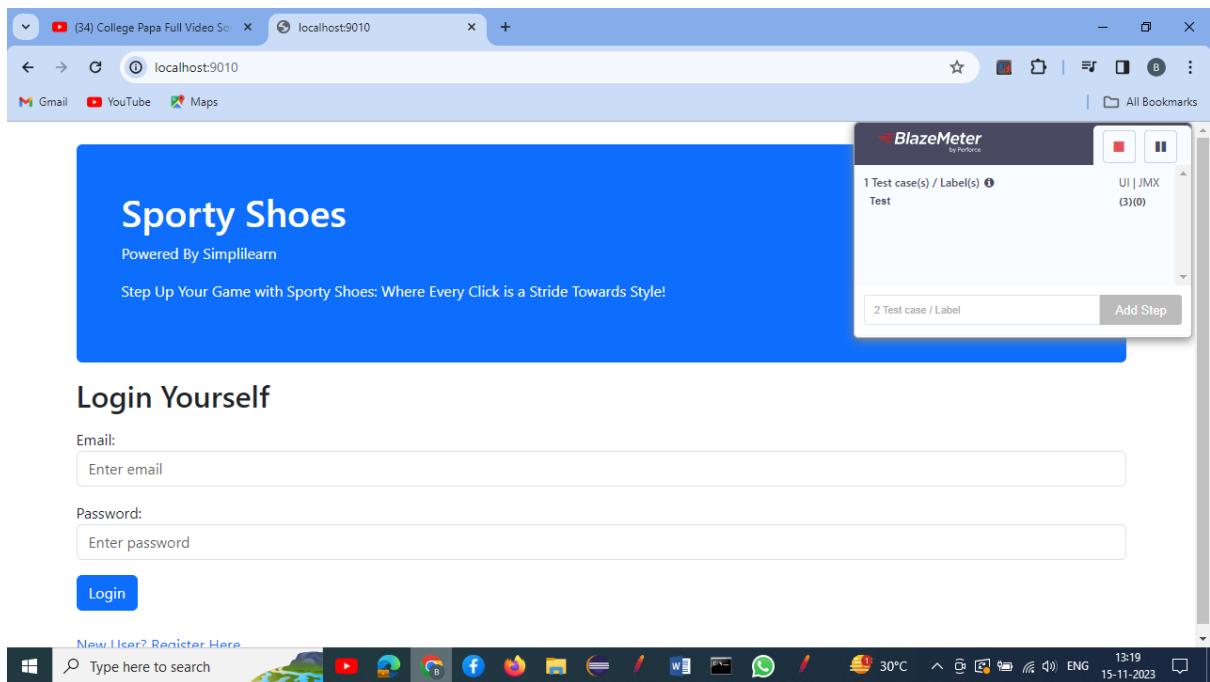
3.Create JMeter scripts to do load testing of the homepage and the product detail page.

Step1: Open JMeter in bin –ApacheJMeter.

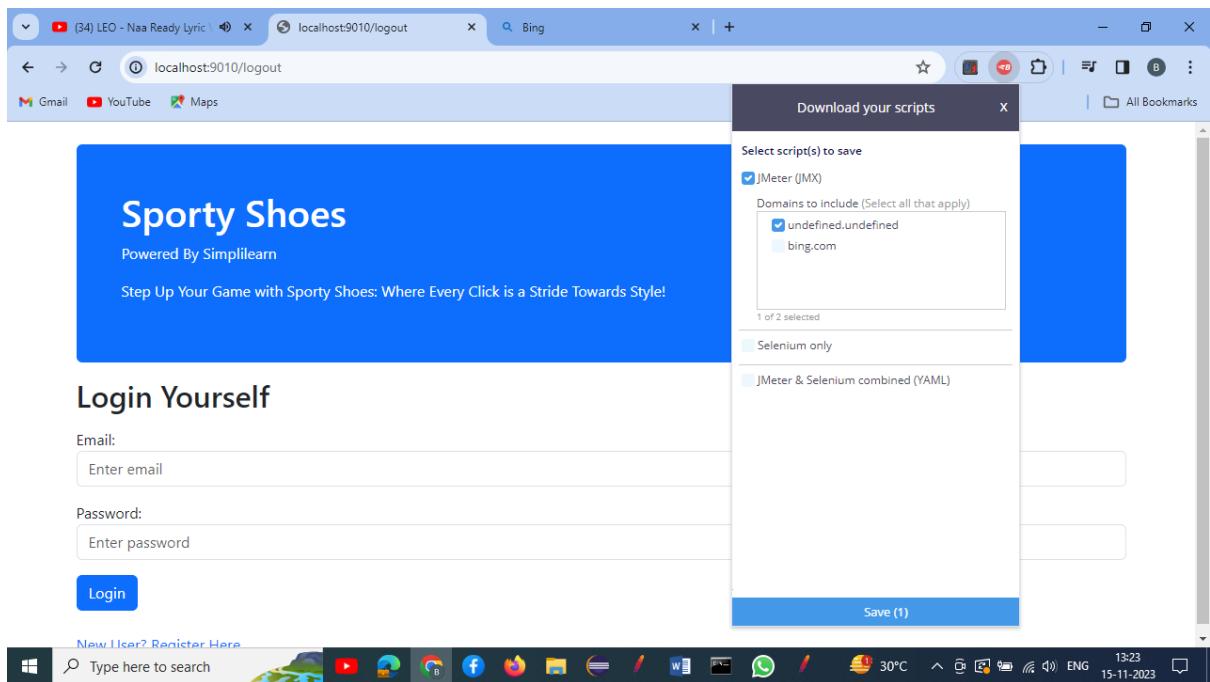




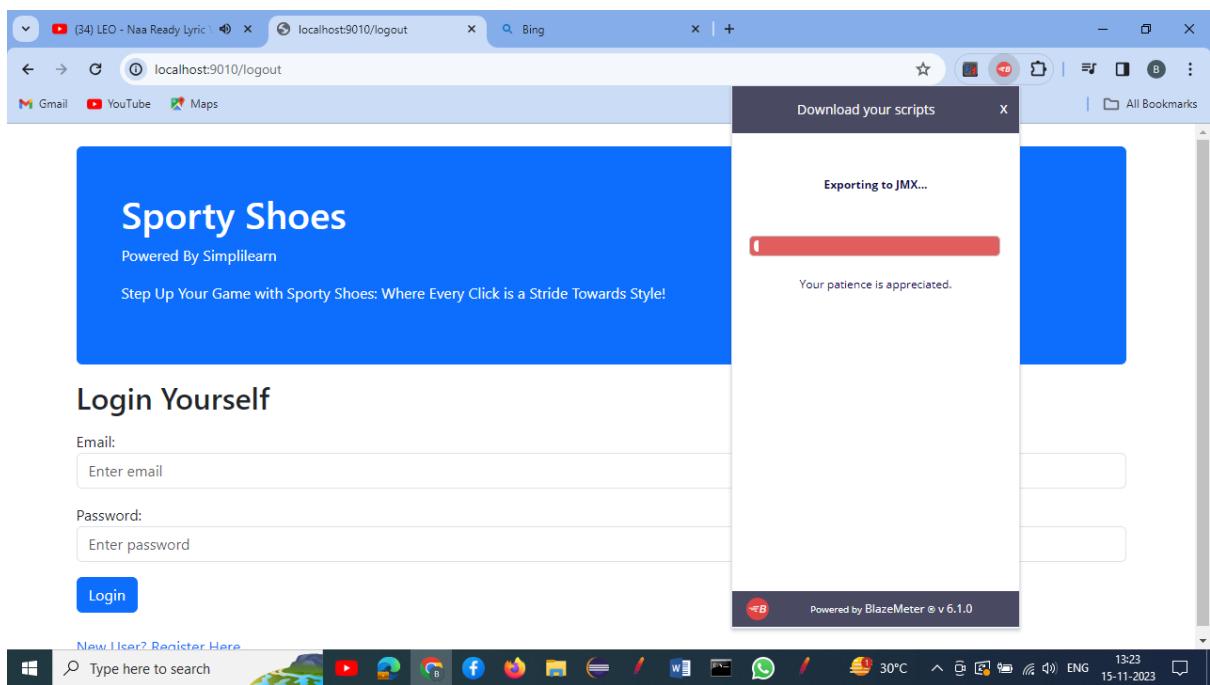
Step2: Open Chrome Browser and open BlazeMeter in the extension

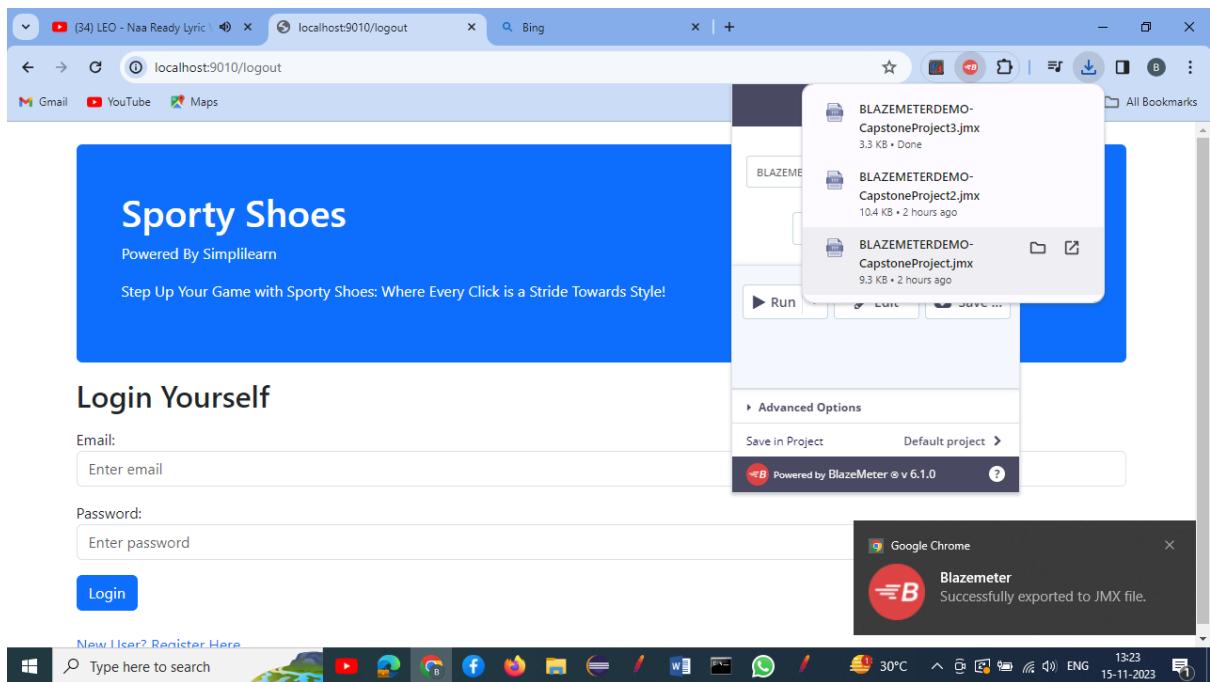


Step3: Start Recording the page as localhost:9010

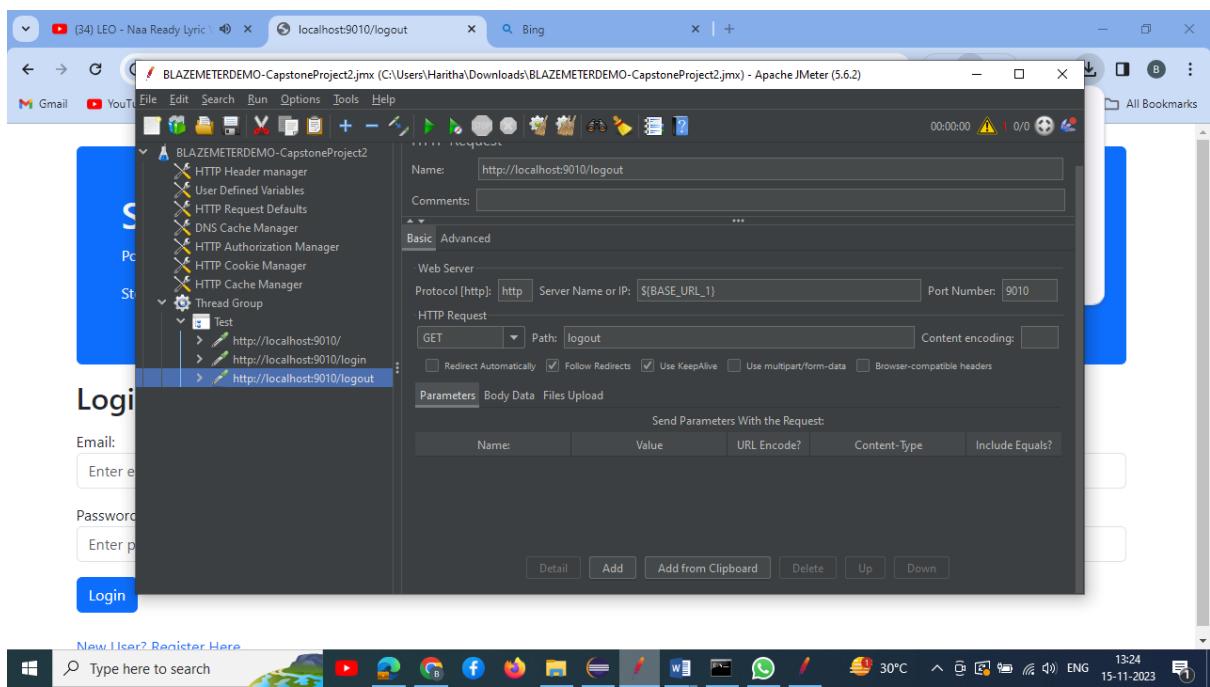


Step4: After Recording has been completed Save the file .

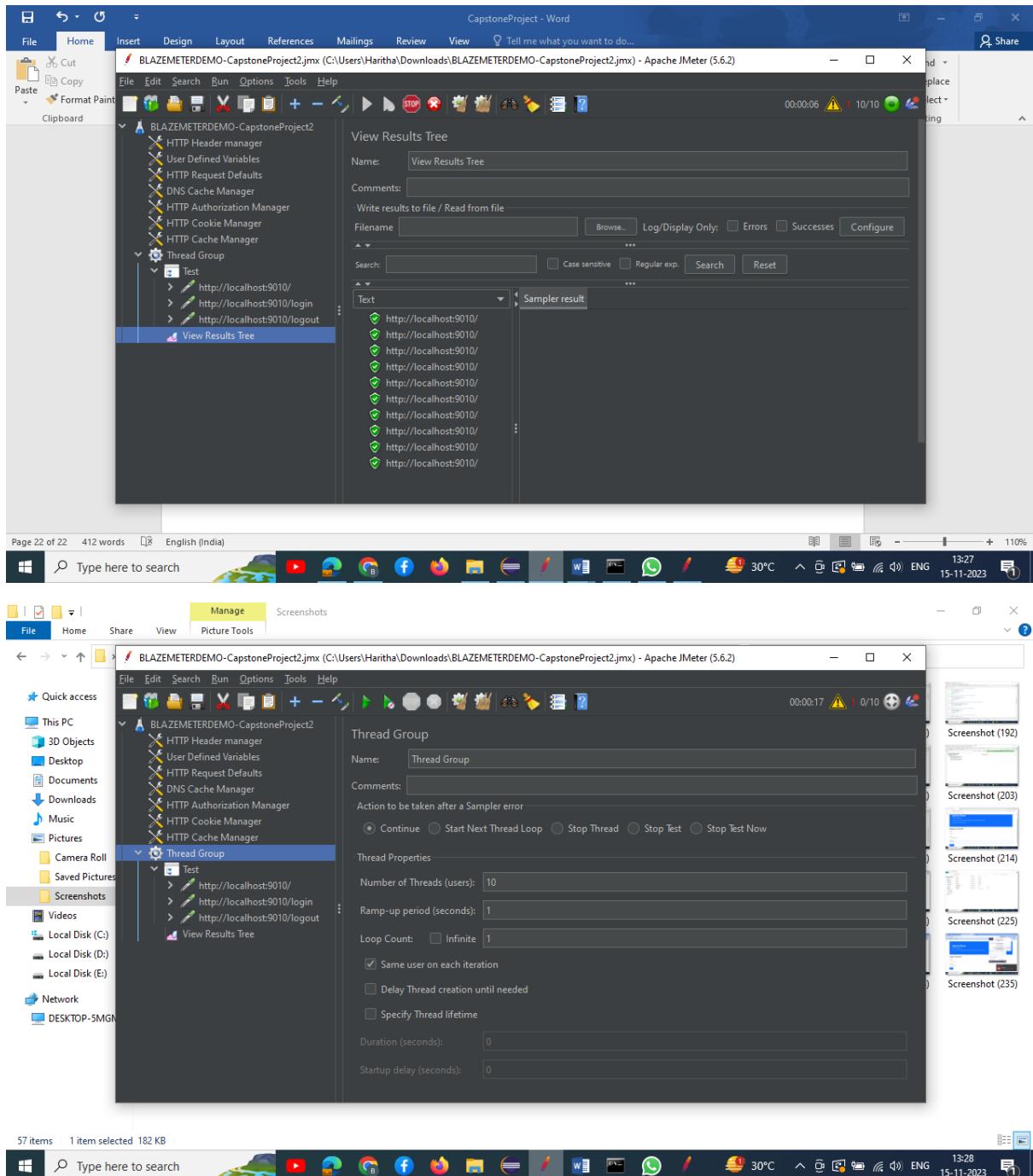




Step5: In Jmeter open that file which has been saved in balzometer.



Step6: Add a Load and add a Listener to see the result.



4. Setup Cucumber in Java Project and write Feature Files using Gherkin to test the API endpoints mentioned in point 1 above.

Step1: In this we have to convert the capstoneProject into the cucumberProject.

Step2: In that Create a new project called as feature. In that feature Package create a file called as capstoneProject.feature. In that write the steps

BoluHaritha - capstoneProject/src/test/java/feature/capstoneproject.feature - Eclipse IDE

File Edit Navigate Search Project Run Window Help

capstoneproject.feature

```
1@Feature: Implement The Lesson End Project
2
3@ Scenario: Rest API testing on localhost:9010
4  Given User send a Get request to create a user and validates status
5  Given User sends a Post request to add a new product
6  Given User sends a Put request to update and delete the product
```

Step3: In that same Project create another package called as steps in that steps package create a class with a name as CapstoneProject. In that write the code .

BoluHaritha - capstoneProject/src/test/java/steps/CapstoneProject.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

capstoneprojectfeature CapstoneProject.java

```
1 package steps;
2 import io.cucumber.java.en.Given;
3 import io.restassured.RestAssured;
4 public class CapstoneProject {
5
6     @Given("User send a Get request to create a user and validates status")
7     public void user_send_a_get_request_to_create_a_user_and_validates_status() {
8
9         RestAssured.given()
10            .baseUri("http://localhost:9010")
11            .basePath("/get-shoes")
12            .when()
13            .get()
14            .then()
15            .statusCode(200)
16            .log()
17            .all();
18
19    }
20
21    @Given("User sends a Post request to add a new product")
22    public void user_sends_a_post_request_to_add_a_new_product() {
23
24        RestAssured.given()
25            .baseUri("http://localhost:9010")
26            .basePath("/add-shoe")
27            .queryParam("id", "1020")
28            .queryParam("image", "www.image.com")
29            .queryParam("name", "Nike")
30            .queryParam("category", "Running")
31            .queryParam("sizes", "5,6,7")
32            .queryParam("price", "2000")
33            .when()
34            .post()
35            .then()
```

```

BoluHaritha - capstoneProject/src/test/java/steps/CapstoneProject.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
capstoneproject.feature CapstoneProject.java
37     .log().all();
38
39 }
40
41@ Given("User sends a Put request to update and delete the product")
42 public void user_sends_a_put_request_to_update_and_delete_the_product() {
43
44     RestAssured.given()
45     .baseUri("http://localhost:9010")
46     .basePath("/update-shoe")
47     .queryParam("id", "1020")
48     .queryParam("image", "www.image123.com")
49     .queryParam("name", "Reebok")
50     .queryParam("category", "Running")
51     .queryParam("sizes", "5,6,7")
52     .queryParam("price", "2500")
53     .when()
54     .put()
55     .then()
56     .log().all();
57
58 }
59
60@ public void delete_product()
61 {
62     RestAssured.given()
63     .baseUri("http://localhost:9010")
64     .basePath("/delete-shoe")
65     .queryParam("id", "1020")
66     .when().delete()
67     .then().log().all();
68
69 }
70
71 }
72

```

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5.Create Postman scripts to test the following API endpoints:

- Retrieve the list of all products in the store.
- Retrieve the list of all registered users.
- Add the product.
- Delete the product.
- Update the product.

Step1: Open Postman in that Create a collection with a name Capstone-Project.

Step2: Add a request in that collection with a name GetAllProducts.

Phase3-Lesson2-API Testing New Import PUT Update a Product DEL Delete a Product GET GetAllProducts + No Environment

Capstone-Project / GetAllProducts

GET http://localhost:9010/get-shoes

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Key	Value	Description	Bulk Edit
Key	Value	Description	

Body Cookies Headers (5) Test Results 200 OK 1229 ms 1.55 KB Save as example

Pretty	Raw	Preview	Visualize	JSON
<pre> 1 2 3 4 5 6 7 8 9 10 </pre> <pre> "code": 101, "message": "12 Shoes Fetched Successfully.", "shoes": [{ "id": 101, "image": "1.png", "name": "BlueWave Running Shoes", "category": "Sports", "sizes": "7, 8, 9", }] </pre>				

Postbot Runner Start Proxy Cookies Trash

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Step3: Add another request in the same collection with a name GetAllUsers.

The screenshot shows the Postman application interface. On the left, there's a sidebar with various sections like Collections, APIs, Environments, Monitors, and History. The main area displays a collection named "Phase3-Lesson2-API Testing". Under this collection, there are several requests: "API Testing-Lesson2", "Capstone-Project" (which contains "GET GetAllProducts" and "GET GetAllUsers"), "collectionRUN-Newman", "EndProject", "Github-API" (which contains "GET GetAllRepos", "POST CreateRepo", "GET Get a specific repo", and "DEL Delete repo"), "HTTPMethods-demo", "Lesson2-EndProject", and "Variables-Demo". The "GET GetAllUsers" request is currently selected. The request details show a GET method pointing to "http://localhost:9010/get-users". The response tab shows a successful 200 OK status with a response time of 11 ms and a size of 440 B. The response body is displayed in JSON format:

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```

The screenshot shows the Postman application interface. On the left, the sidebar displays a collection named "Phase3-Lesson2-API Testing" containing various API endpoints such as "Capstone-Project", "HTTPMethods-demo", and "Variables-Demo". The main workspace shows a "PUT Update a Product" request. The URL is `http://localhost:9010/update-shoe?id=101&image=www.image.com&name=SampleShoe&category=Running`. The "Params" tab is selected, showing parameters: id (101), image (www.image.com), name (SampleShoe), category (Running), sizes (9), and price (1000). The "Body" tab shows a JSON response:

```
1 2 3 4 { "code": 101, "message": "SampleShoe Updated Successfully.", "shoe": {} }
```

. The status bar at the bottom indicates "200 OK" and "24 ms".

Step6: Add another request in the same collection with a name Delete a Product.

The screenshot shows the Postman application interface. The sidebar displays the same collection "Phase3-Lesson2-API Testing". The main workspace shows a "DELETE Delete a Product" request. The URL is `http://localhost:9010/delete-shoe?id=1010`. The "Params" tab is selected, showing a parameter: id (1010). The "Body" tab shows a JSON response:

```
1 2 3 4 { "code": 101, "message": "Shoe with ID 1010 Deleted Successfully." }
```

. The status bar at the bottom indicates "200 OK" and "8 ms".

Github Link : [git@github.com:BolluHaritha/vijaya.git](https://github.com/BolluHaritha/vijaya.git)

HTTPS: <https://github.com/BolluHaritha/vijaya.git>