Capstone Project: Create a Testing Framework for Sporty Shoes Website

Repository: https://github.com/Joshnitha/Phase2_Practice-Projects/

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.

The end deliverables will be executable scripts and modules that can be run on demand for testing the Sporty Shoes web app.

Background of the problem statement:

Sporty Shoes has an e-commerce website that has the following existing features in place:

- Users can view products.
- 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.

Implementation Requirements

The following deliverables are expected:

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.

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

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

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

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.

API Endpoints:

Action	Method	Endpoint
Retrieve the list of all products in the store	GET	http://localhost:9010/get-shoes
Retrieve the list of all registered users	GET	http://localhost:9010/get-users
Add the product	POST	http://localhost:9010/add-shoe?id=101&image=image_url&name=SampleShoe&category=Running&sizes=9&price=1000
Delete the product	DELETE	http://localhost:9010/delete-shoe?id=101
Update the product	PUT	http://localhost:9010/update-shoe

Add Product URL Sample with POST Method:
http://localhost:9010/add-shoe?id=101&image=image_url&name=SampleShoe&category=Running&sizes=9&price=1000

Update Product URL Sample with PUT Method:

Request body (http://localhost:9010/update-shoe)

```
{
  "id": 101,
  "name": "Updated Shoe Name",
  "category": "Updated Category",
  "sizes": "8,9,10",
  "price": 1500
  "image": "updated_image_url",
}
```

Delete Product URL Sample with DELETE Method:

http://localhost:9010/delete-shoe?id=101

You must use the following:

1. Source code editing and modification: Eclipse IDE
2. End-User Black Box Testing: Selenium WebDriver (A Browser testing framework where only the Java version is used.) with TestNG Framework.
3. Load Testing: JMeter (A load testing application for Java applications.)
4. API Testing: Cucumber (The Gherkin syntax used in Cucumber allows you to define test scenarios in a natural language format)
5. API Testing: Postman (A standalone application that allows testing of API-based services.) and Rest-Assured.
6. Git: To connect and push files from the local system to GitHub
7. GitHub: To store the application code and track its versions.
8. Specification document: Any open-source document or Google Docs

The following requirements should be met:

1. All testing scripts and code should be pushed to your GitHub repository. You need to document the steps and write the algorithms in it.
2. The submission of your GitHub repository link is mandatory. In order to track your task, you need to share the link to the repository. You can add a section in your document.
3. Document the step-by-step process starting from creating test cases and then executing them and recording the results.
4. You need to submit the final specification document which should include:
   - Project and tester details
   - Concepts used in the project.
   - Links to the GitHub repository to verify the project completion.
   - Your conclusion on enhancing the application and defining the USPs (Unique Selling Points)

Project to be tested:

Download the project from https://github.com/Simplilearn-Edu/SportyShoes

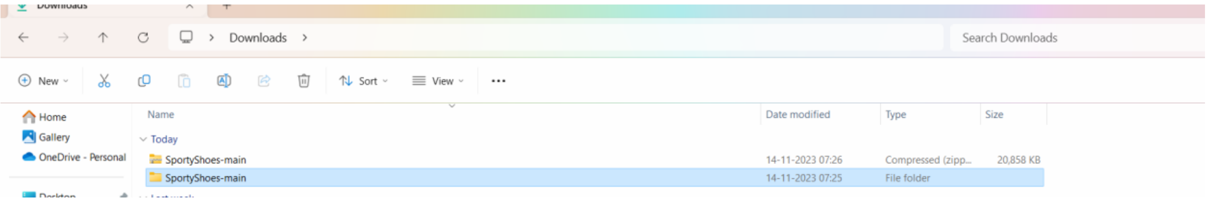
Then execute:

java -jar project_name.jar

Steps to complete the Capstone project

Launch the Application under test

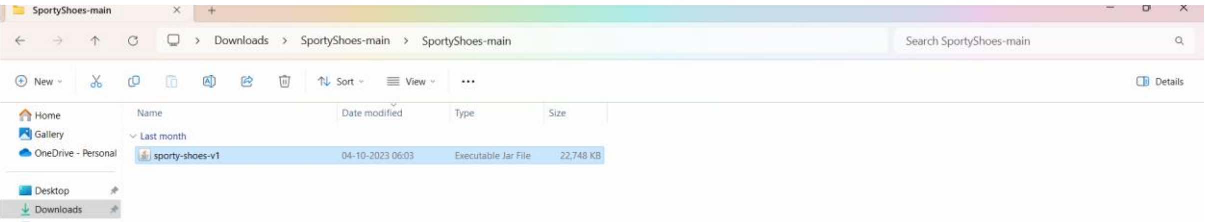
- Go to github URL https://github.com/Simplilearn-Edu/SportyShoes.git
- Click on Green button which has Code written on it. Click on Download Zip
- The download zip file will be in your download folder
- Extract all the files in downloads folder



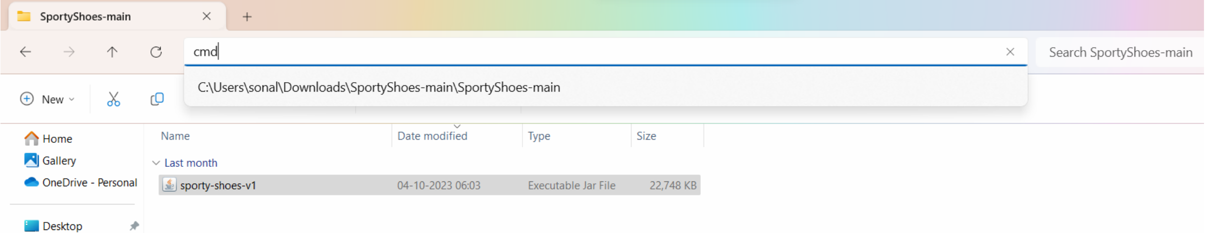
Name	Date modified	Type	Size
SportyShoes-main	14-11-2023 07:26	Compressed (zipp...	20,858 KB
SportyShoes-main	14-11-2023 07:25	File folder	

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

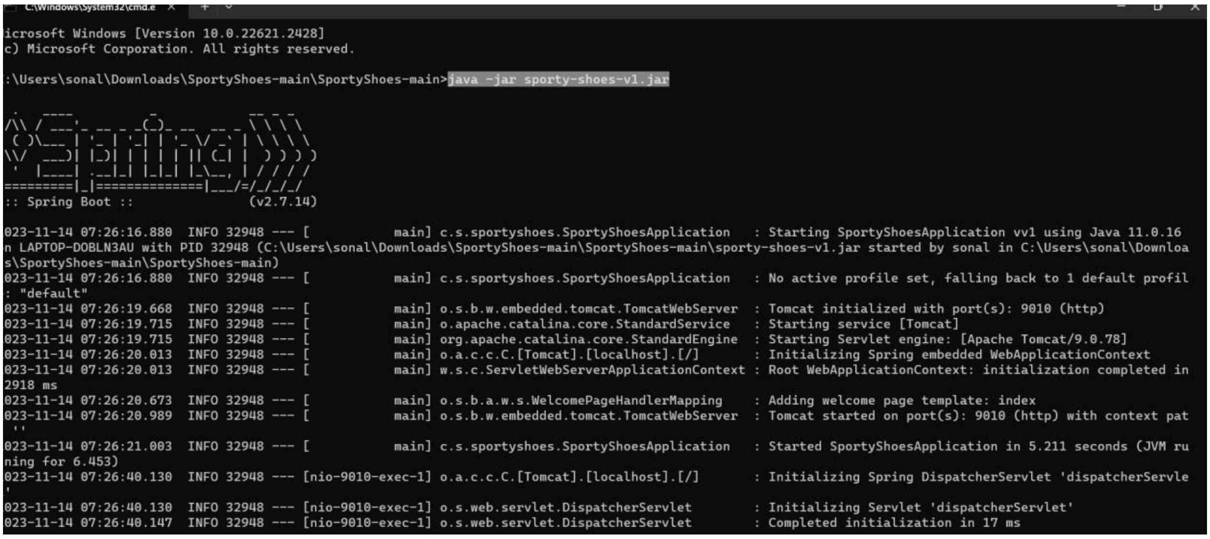


Start cmd prompt in the same folder



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

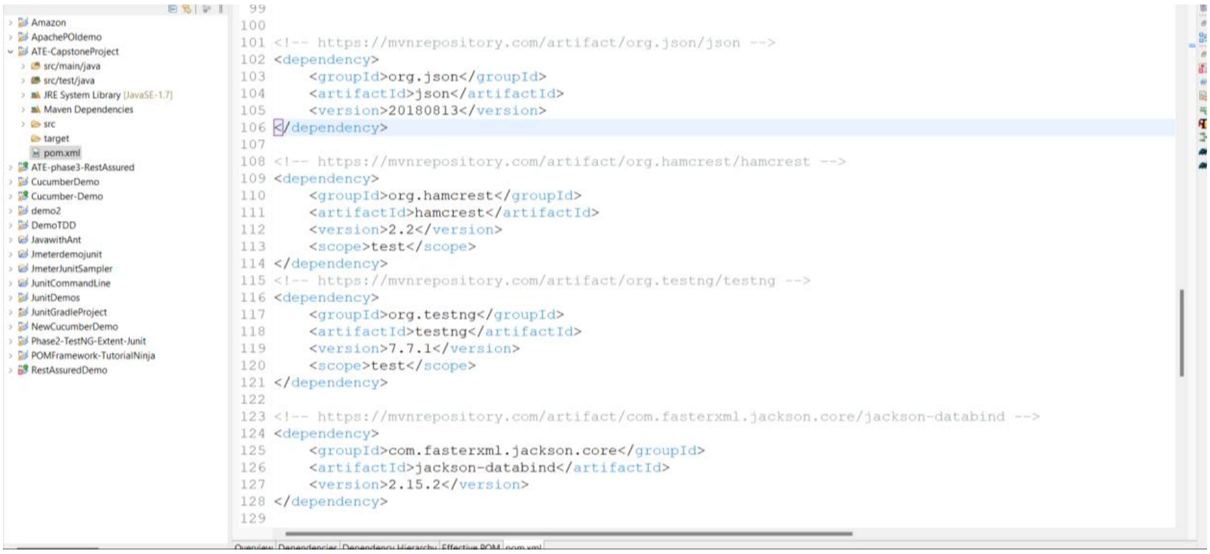


```
icrosoft Windows [Version 10.0.22621.2428]
c) Microsoft Corporation. All rights reserved.

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

 .   ____          _            __ _ _
/\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
 ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
\\/  ___)| |_)| | | | | || (_| |  ) ) ) )
 '  |____| .__|_| |_|_| |_\__, | / / / /
=========|_|==============|___/=/_/_/_/
:: Spring Boot ::                (v2.7.14)

023-11-14 07:26:16.880  INFO 32948 --- [           main] c.s.sportyshoes.SportyShoesApplication   : Starting SportyShoesApplication vv1 using Java 11.0.16
n LAPTOP-DOBLN3AU with PID 32948 (C:\Users\sonal\Downloads\SportyShoes-main\SportyShoes-main\sporty-shoes-v1.jar started by sonal in C:\Users\sonal\Downloa
s\SportyShoes-main\SportyShoes-main)
023-11-14 07:26:16.880  INFO 32948 --- [           main] c.s.sportyshoes.SportyShoesApplication   : No active profile set, falling back to 1 default profil
: "default"
023-11-14 07:26:19.668  INFO 32948 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 9010 (http)
023-11-14 07:26:19.715  INFO 32948 --- [           main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
023-11-14 07:26:19.715  INFO 32948 --- [           main] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat/9.0.78]
023-11-14 07:26:20.013  INFO 32948 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
023-11-14 07:26:20.013  INFO 32948 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in
2918 ms
023-11-14 07:26:20.673  INFO 32948 --- [           main] o.s.b.a.w.s.WelcomePageHandlerMapping    : Adding welcome page template: index
023-11-14 07:26:20.989  INFO 32948 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 9010 (http) with context pat
 ''
023-11-14 07:26:21.003  INFO 32948 --- [           main] c.s.sportyshoes.SportyShoesApplication   : Started SportyShoesApplication in 5.211 seconds (JVM ru
ning for 6.453)
023-11-14 07:26:40.130  INFO 32948 --- [nio-9010-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring DispatcherServlet 'dispatcherServle
'
023-11-14 07:26:40.130  INFO 32948 --- [nio-9010-exec-1] o.s.web.servlet.DispatcherServlet        : Initializing Servlet 'dispatcherServlet'
023-11-14 07:26:40.147  INFO 32948 --- [nio-9010-exec-1] o.s.web.servlet.DispatcherServlet        : Completed initialization in 17 ms
```

Rest Assured:

Create a maven project

Add the dependencies in pom file



```xml

<!-- https://mvnrepository.com/artifact/org.json/json -->
<dependency>
    <groupId>org.json</groupId>
    <artifactId>json</artifactId>
    <version>20180813</version>
</dependency>

<!-- https://mvnrepository.com/artifact/org.hamcrest/hamcrest -->
<dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest</artifactId>
    <version>2.2</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>7.7.1</version>
    <scope>test</scope>
</dependency>

<!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-databind -->
<dependency>
    <groupId>com.fasterxml.jackson.core</groupId>
    <artifactId>jackson-databind</artifactId>
    <version>2.15.2</version>
</dependency>

```

```xml
<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>


              <dependency>
     <groupId>junit</groupId>
     <artifactId>junit</artifactId>
     <version>4.11</version>
     <scope>test</scope>
   </dependency>


 <!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
<dependency>
   <groupId>io.cucumber</groupId>
   <artifactId>cucumber-java</artifactId>
   <version>7.10.1</version>
</dependency>
```

```xml
 <!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
<dependency>
   <groupId>io.cucumber</groupId>
   <artifactId>cucumber-junit</artifactId>
   <version>7.10.1</version>
   <scope>test</scope>
</dependency>


 <!-- https://mvnrepository.com/artifact/io.cucumber/cucumber-java -->
<dependency>
   <groupId>io.cucumber</groupId>
   <artifactId>cucumber-core</artifactId>
   <version>7.10.1</version>
</dependency>

<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured -->
<dependency>
   <groupId>io.rest-assured</groupId>
   <artifactId>rest-assured</artifactId>
   <version>5.3.0</version>
   <scope>test</scope>
</dependency>

<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured-common -->
<dependency>
   <groupId>io.rest-assured</groupId>
   <artifactId>rest-assured-common</artifactId>
   <version>5.3.0</version>
</dependency>

<!-- https://mvnrepository.com/artifact/io.rest-assured/rest-assured-all -->
<dependency>
   <groupId>io.rest-assured</groupId>
   <artifactId>rest-assured-all</artifactId>
   <version>5.3.0</version>
   <scope>test</scope>
</dependency>


<!-- https://mvnrepository.com/artifact/io.rest-assured/json-path -->
<dependency>
   <groupId>io.rest-assured</groupId>
   <artifactId>json-path</artifactId>
   <version>5.3.0</version>
   <scope>test</scope>
</dependency>
```

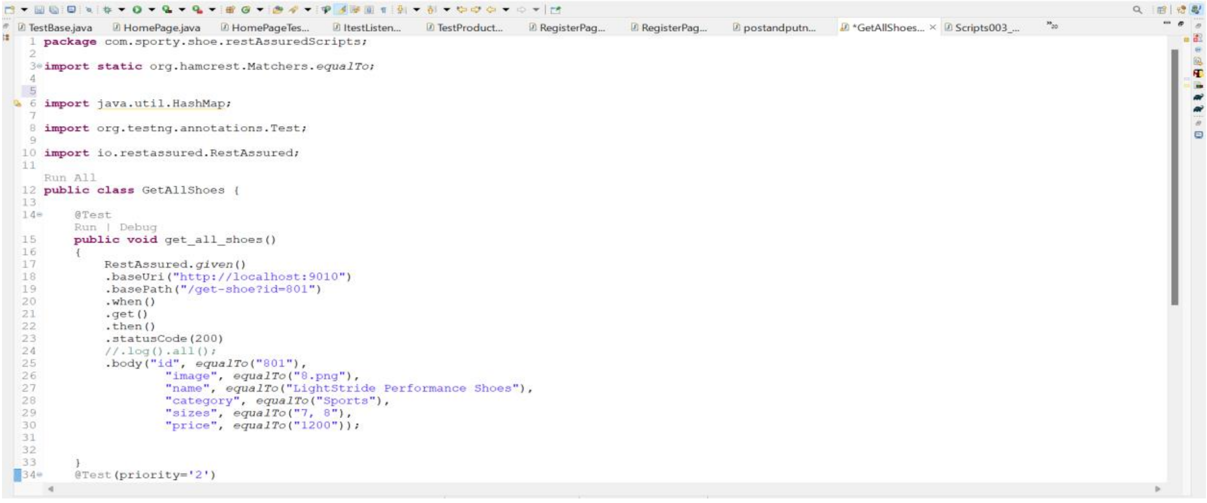
```
<!-- https://mvnrepository.com/artifact/org.json/json -->
<dependency>
    <groupId>org.json</groupId>
    <artifactId>json</artifactId>
    <version>20180813</version>
</dependency>

<!-- https://mvnrepository.com/artifact/org.hamcrest/hamcrest -->
<dependency>
    <groupId>org.hamcrest</groupId>
    <artifactId>hamcrest</artifactId>
    <version>2.2</version>
    <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.testng/testng -->
<dependency>
    <groupId>org.testng</groupId>
    <artifactId>testng</artifactId>
    <version>7.7.1</version>
    <scope>test</scope>
</dependency>

<!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-databind -->
<dependency>
    <groupId>com.fasterxml.jackson.core</groupId>
    <artifactId>jackson-databind</artifactId>
    <version>2.15.2</version>
</dependency>

   <dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>4.11.0</version>
</dependency>

<!-- https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager -->
<dependency>
    <groupId>io.github.bonigarcia</groupId>
    <artifactId>webdrivermanager</artifactId>
    <version>5.4.1</version>
</dependency>

  </dependencies>
```

Source Code:

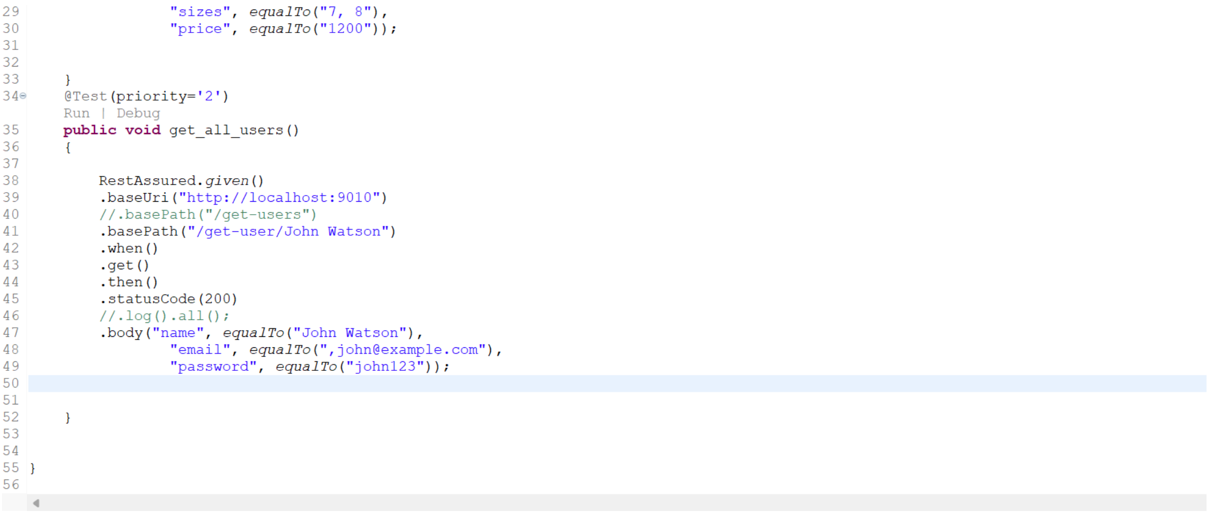
```
package com.sporty.shoe.restAssuredScripts;

import static org.hamcrest.Matchers.equalTo;

import java.util.HashMap;

import org.testng.annotations.Test;

import io.restassured.RestAssured;

public class GetAllShoes {

@Test

public void get_all_shoes()

{

RestAssured.given()

.baseUri("http://localhost:9010")

.basePath("/get-shoe?id=801")

.when()

.get()

.then()

.statusCode(200)

//.log().all();

.body("id", equalTo("801"),

"image", equalTo("8.png"),

"name", equalTo("LightStride Performance Shoes"),
"category", equalTo("Sports"),
"sizes", equalTo("7, 8"),
"price", equalTo("1200"));
}
@Test(priority='2')
public void get_all_users()
{
RestAssured.given()
.baseUri("http://localhost:9010")
//.basePath("/get-users")
.basePath("/get-user/John Watson")
.when()
.get()
.then()
.statusCode(200)
//.log().all();
.body("name", equalTo("John Watson"),
"email", equalTo(",john@example.com"),
"password", equalTo("john123"));
}
}
```

ScreenShots :

Program:

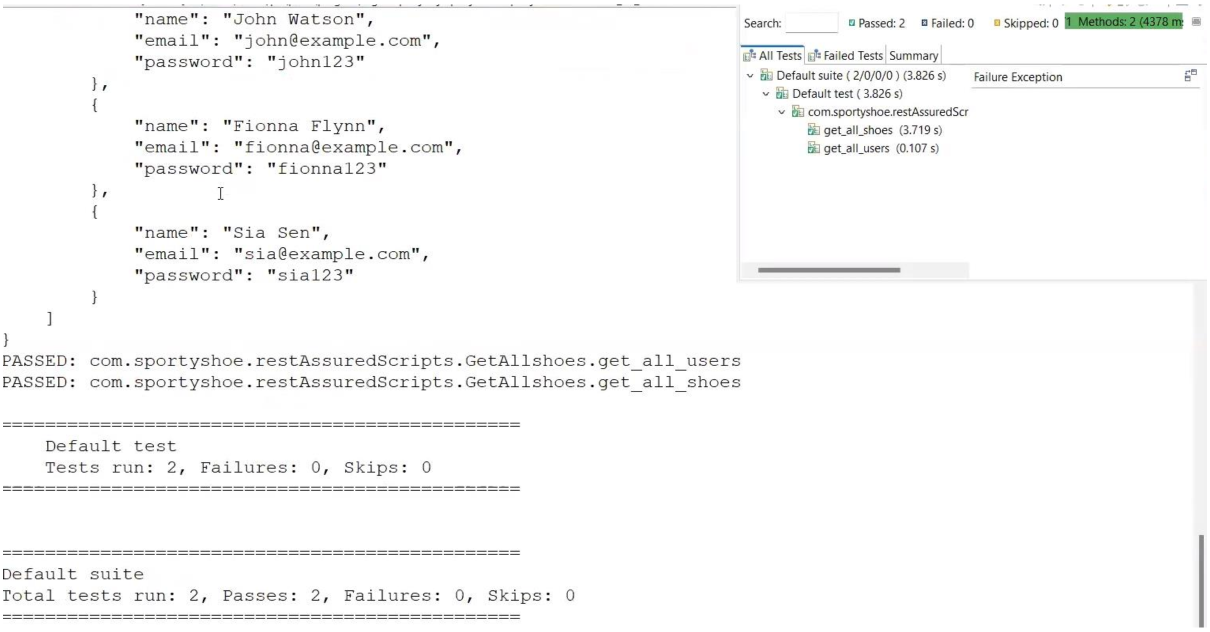


```
package com.sporty.shoe.restAssuredScripts;

import static org.hamcrest.Matchers.equalTo;


import java.util.HashMap;

import org.testng.annotations.Test;

import io.restassured.RestAssured;

Run All
public class GetAllShoes {

    @Test
    Run | Debug
    public void get_all_shoes()
    {
        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/get-shoe?id=801")
        .when()
        .get()
        .then()
        .statusCode(200)
        //.log().all();
        .body("id", equalTo("801"),
                "image", equalTo("8.png"),
                "name", equalTo("LightStride Performance Shoes"),
                "category", equalTo("Sports"),
                "sizes", equalTo("7, 8"),
                "price", equalTo("1200"));


    }
    @Test(priority='2')
```



```
                "sizes", equalTo("7, 8"),
                "price", equalTo("1200"));


    }
    @Test(priority='2')
    Run | Debug
    public void get_all_users()
    {

        RestAssured.given()
        .baseUri("http://localhost:9010")
        //.basePath("/get-users")
        .basePath("/get-user/John Watson")
        .when()
        .get()
        .then()
        .statusCode(200)
        //.log().all();
        .body("name", equalTo("John Watson"),
                "email", equalTo(",john@example.com"),
                "password", equalTo("john123"));


    }


}
```

Output:



```
            "name": "John Watson",
            "email": "john@example.com",
            "password": "john123"
        },
        {
            "name": "Fionna Flynn",
            "email": "fionna@example.com",
            "password": "fionna123"
        },
        {
            "name": "Sia Sen",
            "email": "sia@example.com",
            "password": "sia123"
        }
    ]
}
PASSED: com.sportyshoe.restAssuredScripts.GetAllshoes.get_all_users
PASSED: com.sportyshoe.restAssuredScripts.GetAllshoes.get_all_shoes

===============================================
    Default test
    Tests run: 2, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
===============================================
```

```
Search:    Passed: 2    Failed: 0    Skipped: 0    1  Methods: 2 (4378 m

All Tests | Failed Tests | Summary
Default suite ( 2/0/0/0 ) (3.826 s)          Failure Exception
  Default test ( 3.826 s)
    com.sportyshoe.restAssuredScr
      get_all_shoes  (3.719 s)
      get_all_users  (0.107 s)
```

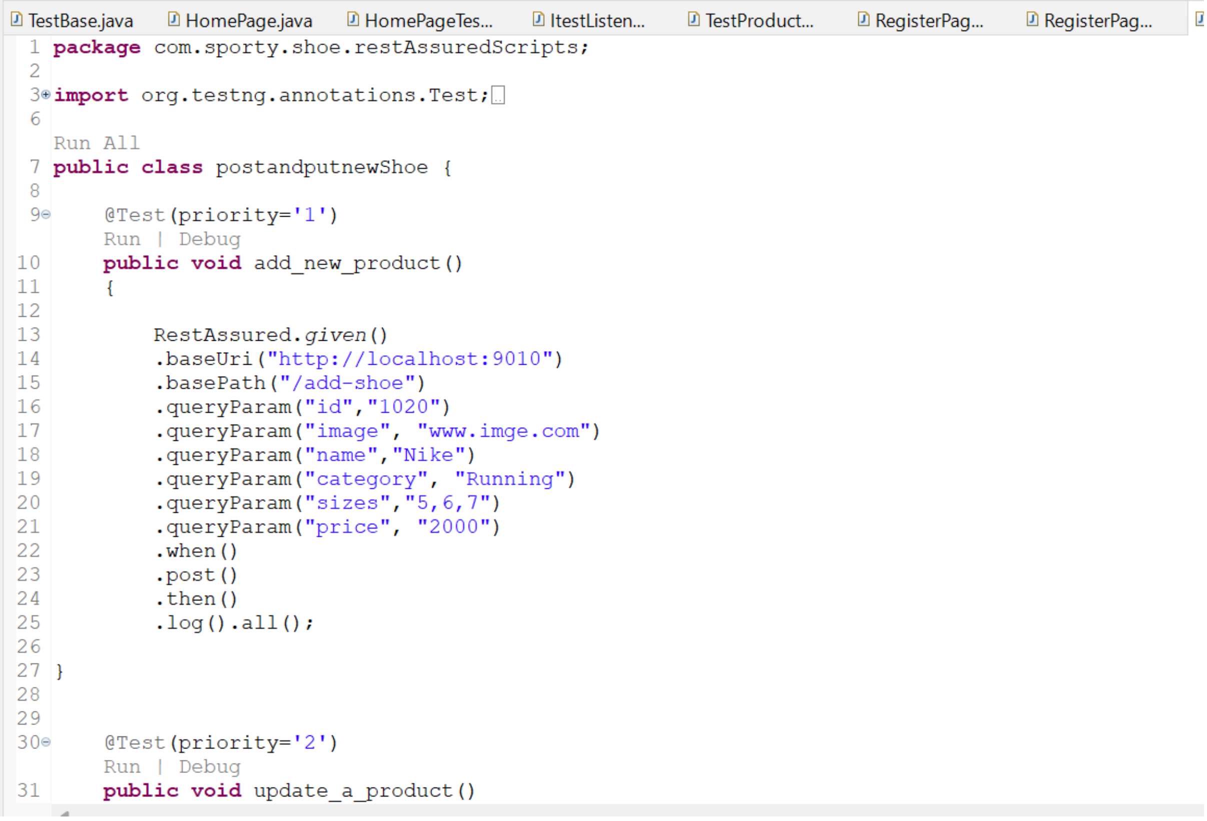
Source code:

```
package com.sporty.shoe.restAssuredScripts;

import org.testng.annotations.Test;

import io.restassured.RestAssured;

public class postandputnewShoe {

	@Test(priority='1')
	public void add_new_product()
	{

		RestAssured.given()
		.baseUri("http://localhost:9010")
		.basePath("/add-shoe")
		.queryParam("id","1020")
		.queryParam("image", "www.imge.com")
		.queryParam("name","Nike")
		.queryParam("category", "Running")
		.queryParam("sizes","5,6,7")
		.queryParam("price", "2000")
		.when()
		.post()
		.then()
		.log().all();

}


	@Test(priority='2')
	public void update_a_product()
	{

		RestAssured.given()
		.baseUri("http://localhost:9010")
		.basePath("/update-shoe")
		.queryParam("id","1020")
		.queryParam("image", "www.imge123.com")
		.queryParam("name","Reebok")
		.queryParam("category", "Running")
		.queryParam("sizes","5,6,7")
		.queryParam("price", "2500")
		.when()
		.put()
```

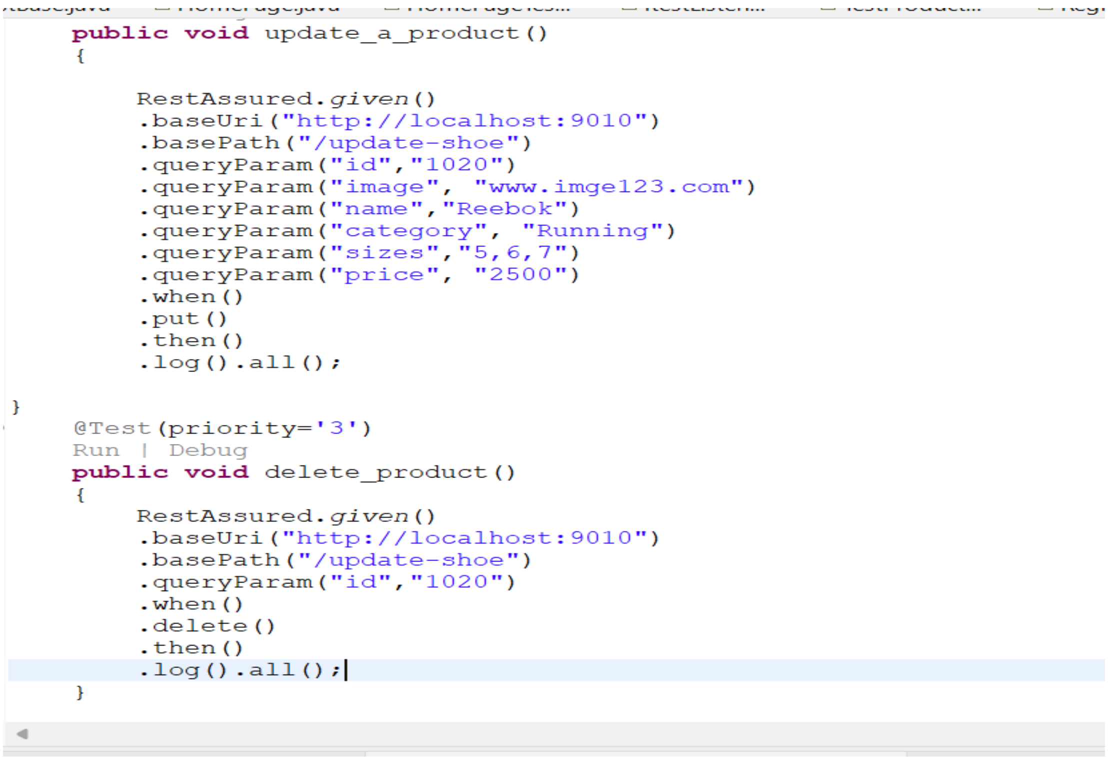
```
                .then()
                .log().all();

}
        @Test(priority='3')
        public void delete_product()
        {
                RestAssured.given()
                .baseUri("http://localhost:9010")
                .basePath("/update-shoe")
                .queryParam("id","1020")
                .when()
                .delete()
                .then()
                .log().all();
        }

}
```

ScreenShots:

Program:

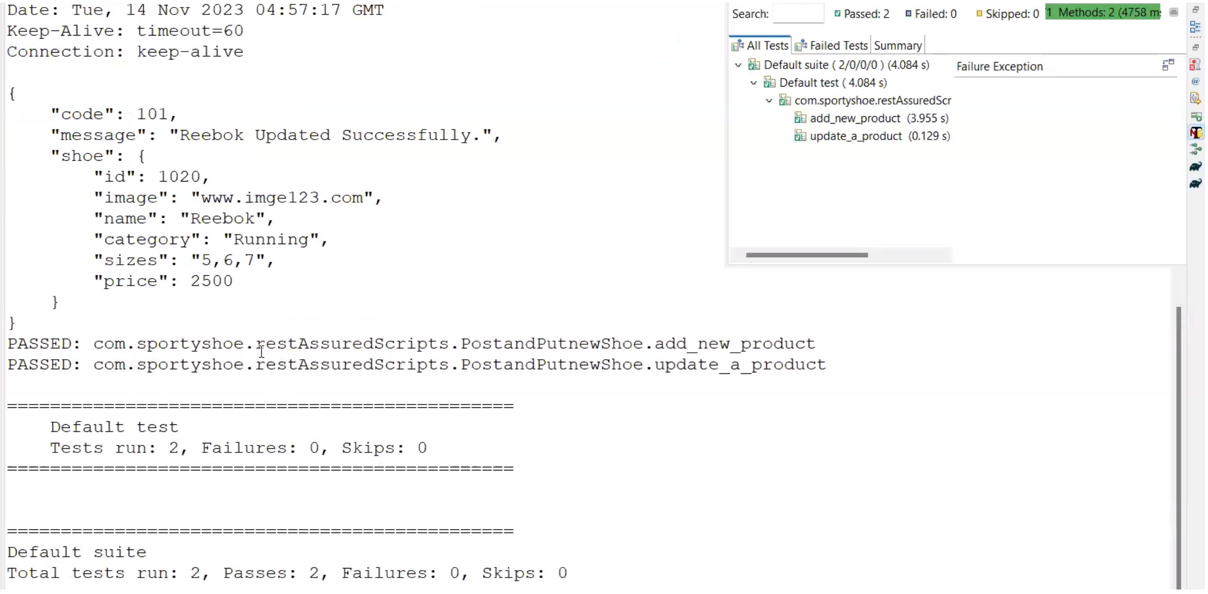


```
package com.sporty.shoe.restAssuredScripts;

import org.testng.annotations.Test;

public class postandputnewShoe {

    @Test(priority='1')
    public void add_new_product()
    {

        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/add-shoe")
        .queryParam("id","1020")
        .queryParam("image", "www.imge.com")
        .queryParam("name","Nike")
        .queryParam("category", "Running")
        .queryParam("sizes","5,6,7")
        .queryParam("price", "2000")
        .when()
        .post()
        .then()
        .log().all();

}


    @Test(priority='2')
    public void update_a_product()
```



```
    public void update_a_product()
    {

        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/update-shoe")
        .queryParam("id","1020")
        .queryParam("image",  "www.imge123.com")
        .queryParam("name","Reebok")
        .queryParam("category",  "Running")
        .queryParam("sizes","5,6,7")
        .queryParam("price",  "2500")
        .when()
        .put()
        .then()
        .log().all();

}
    @Test(priority='3')
    Run | Debug
    public void delete_product()
    {
        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/update-shoe")
        .queryParam("id","1020")
        .when()
        .delete()
        .then()
        .log().all();
    }
```

Output:



```
Date: Tue, 14 Nov 2023 04:57:17 GMT
Keep-Alive: timeout=60
Connection: keep-alive

{
    "code": 101,
    "message": "Reebok Updated Successfully.",
    "shoe": {
        "id": 1020,
        "image": "www.imge123.com",
        "name": "Reebok",
        "category": "Running",
        "sizes": "5,6,7",
        "price": 2500
    }
}
PASSED: com.sportyshoe.restAssuredScripts.PostandPutnewShoe.add_new_product
PASSED: com.sportyshoe.restAssuredScripts.PostandPutnewShoe.update_a_product

===============================================
    Default test
    Tests run: 2, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
```

```
Search:        Passed: 2   Failed: 0   Skipped: 0   1 Methods: 2 (4758 m
All Tests | Failed Tests | Summary
Default suite ( 2/0/0/0 ) (4.084 s)          Failure Exception
  Default test ( 4.084 s)
    com.sportyshoe.restAssuredScr
      add_new_product  (3.955 s)
      update_a_product  (0.129 s)
```

Selenium scripts using TestNG:

Source Code:

TestBase class:

```
package com.sportyshoe.SeleniumCucumberScripts;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
public class TestBase {
public static WebDriver driver;
public static void OpenBrowser(String browser)
{
if(browser == "Chrome")
{
driver = new ChromeDriver();
}
if(browser == "FireFox")
{
driver = new FirefoxDriver();
}
driver.manage().window().maximize();
driver.manage().deleteAllCookies();
driver.get("http://localhost:9010/");
}
public static void closebrowser()
{
driver.close();
}
}
```

HomePage class:

```java
package com.sportyshoe.SeleniumCucumberScripts;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.PageFactory;

public class HomePage extends TestBase {

@FindBy(xpath="//div[@class='container mt-3']/descendant::p[1]")

WebElement text;

@FindBy(linkText="New User? Register Here")

WebElement registerLink;

public HomePage(WebDriver driver) {

PageFactory.initElements(driver, this);

}

public String getURL_page()

{

String URLnew = driver.getCurrentUrl();

return URLnew;

}

public String Validate_Text_On_Page()

{

String pageText = text.getText();
System.out.println(pageText);

return pageText;

}

public void click_register_link()

{

registerLink.click();

}

}
```

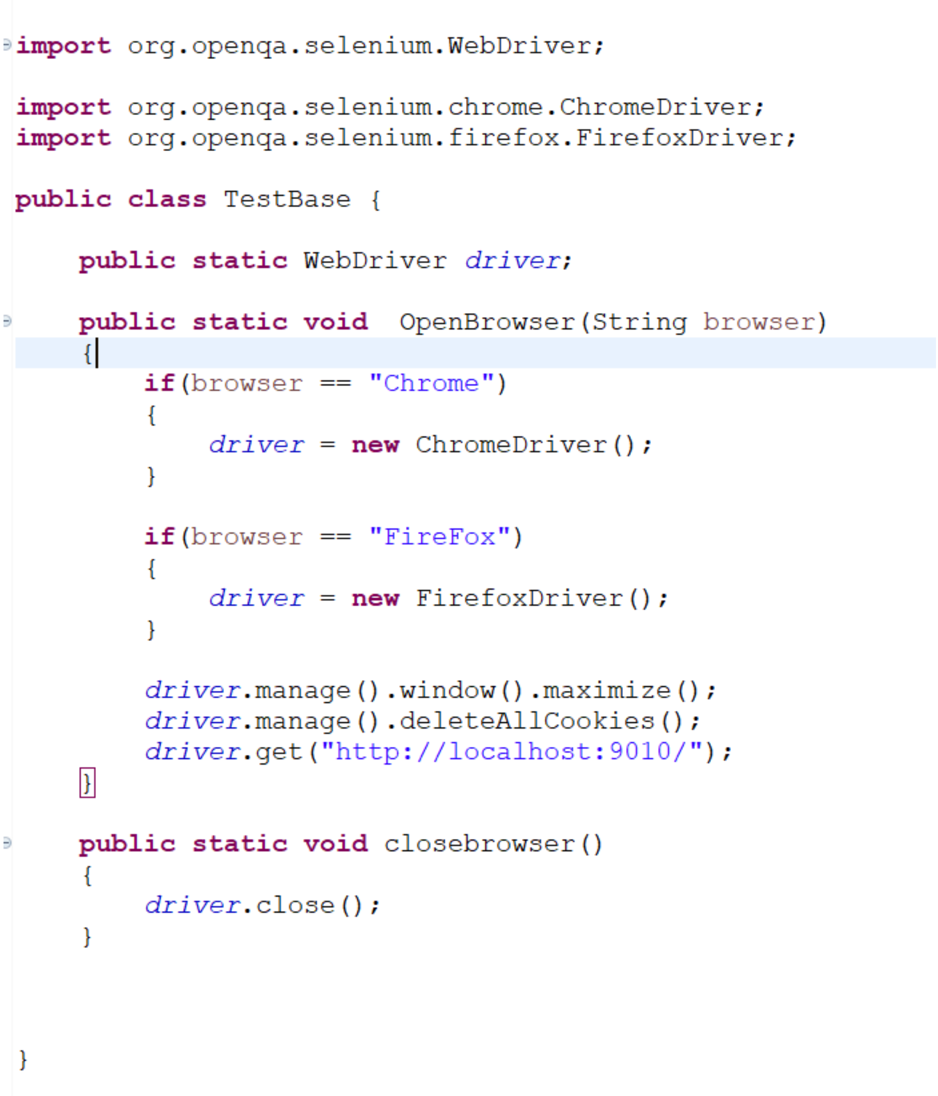
HomePageTest Class:

```
package com.sportyshoe.Test;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

import com.sportyshoe.SeleniumCucumberScripts.HomePage;

import com.sportyshoe.SeleniumCucumberScripts.TestBase;

import static org.testng.Assert.assertEquals;

import org.testng.Assert;

import org.testng.Assert.*;

public class HomePageTest extends TestBase {

HomePage hp;

@BeforeTest

public void start_browser()

{
```

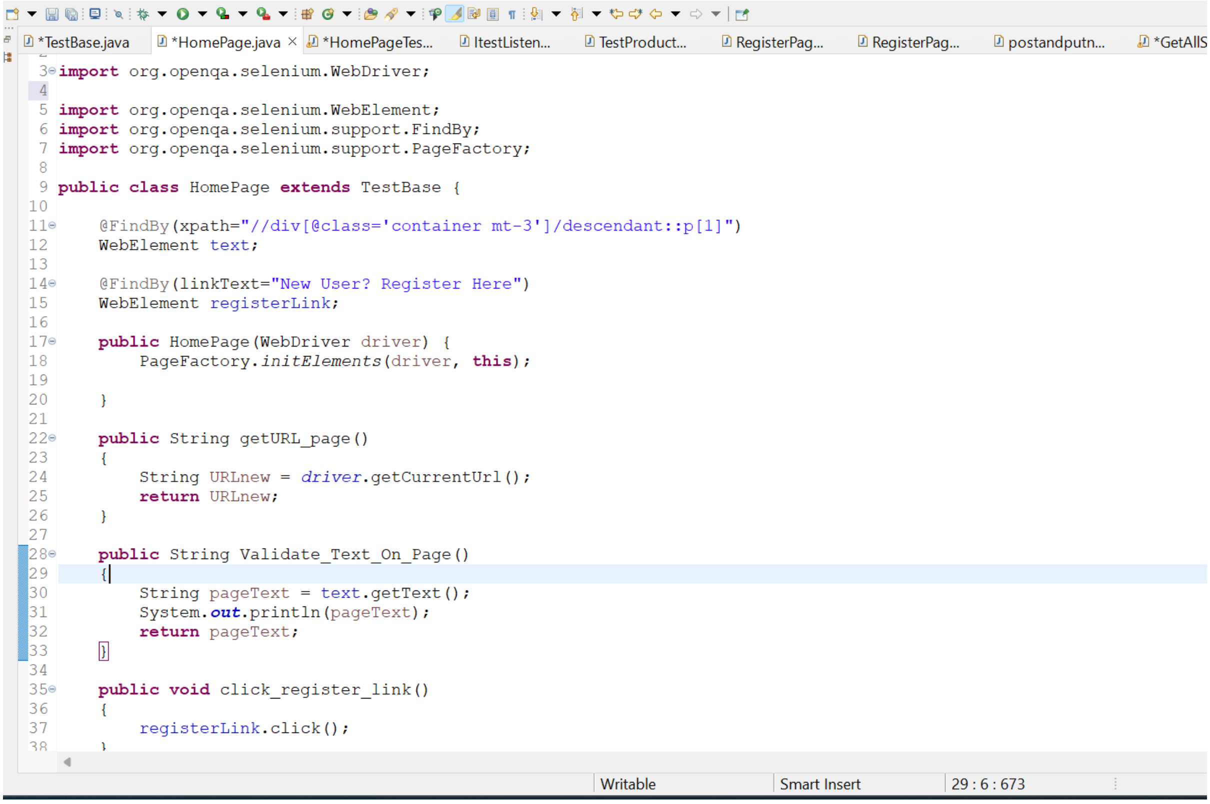
```
OpenBrowser("Chrome");

hp = new HomePage(driver);

}

@Test(priority='1')

public void test_getTitle_page()

{

String expected = "http://localhost:9010/";

String Actual = hp.getURL_page();

Assert.assertEquals(Actual, expected);

}

@Test(priority='2')

public void Test_Validate_Text_On_Page()

{

String expected = "Powered By Simplilearn";

String actualText = hp.Validate_Text_On_Page();

Assert.assertEquals(actualText, expected);

}

@Test(priority='3')

public void test_click_register_link() throws InterruptedException

{

Thread.sleep(1500);

hp.click_register_link();

}

}
```

ScreenShots:

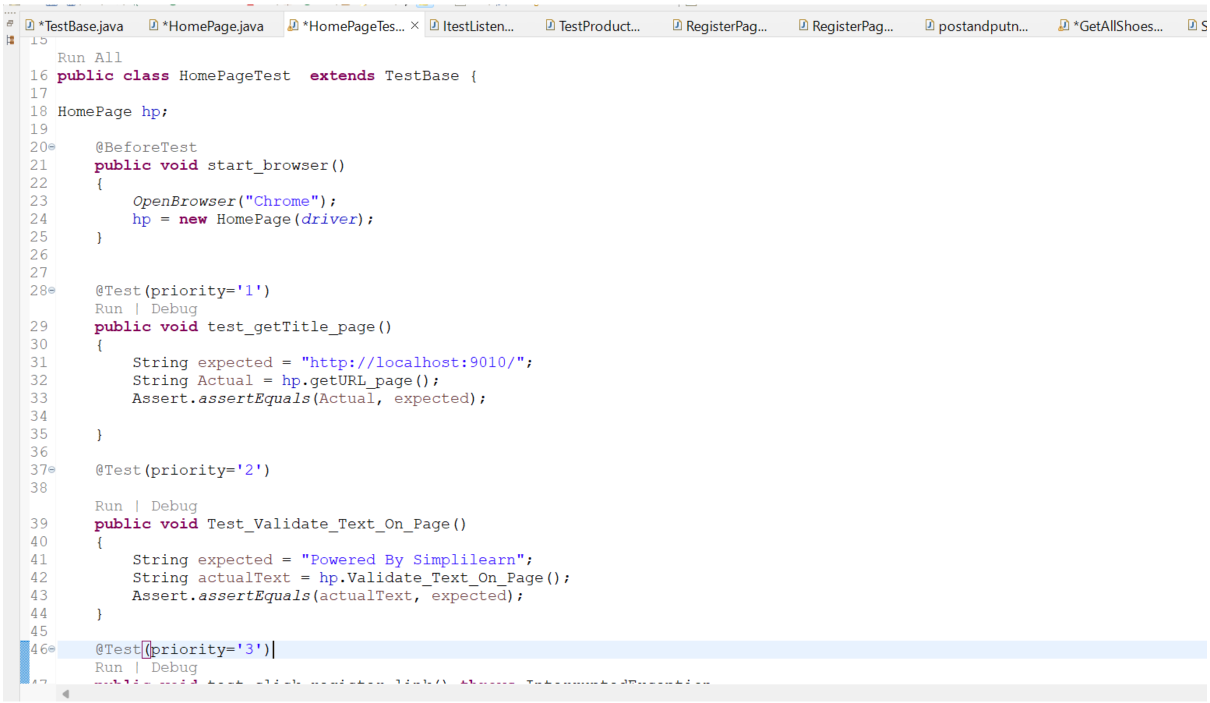
Program:



```
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class TestBase {

    public static WebDriver driver;

    public static void  OpenBrowser(String browser)
    {
        if(browser == "Chrome")
        {
            driver = new ChromeDriver();
        }

        if(browser == "FireFox")
        {
            driver = new FirefoxDriver();
        }

        driver.manage().window().maximize();
        driver.manage().deleteAllCookies();
        driver.get("http://localhost:9010/");
    }

    public static void closebrowser()
    {
        driver.close();
    }



}
```

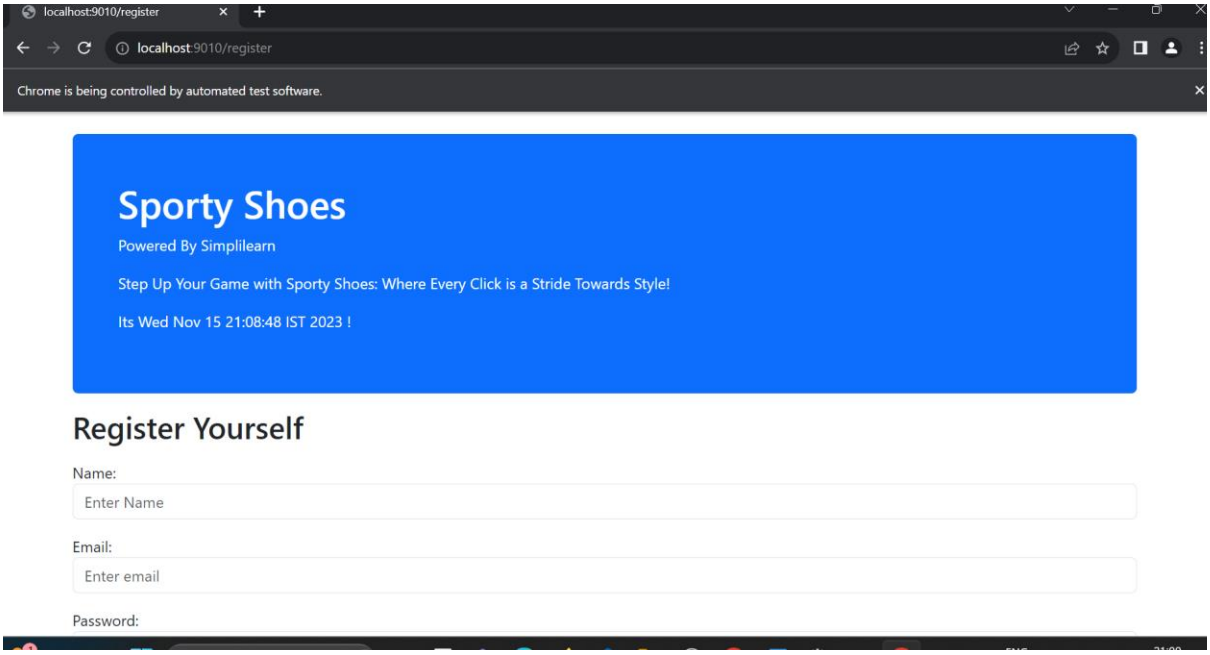


```java
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class HomePage extends TestBase {

    @FindBy(xpath="//div[@class='container mt-3']/descendant::p[1]")
    WebElement text;

    @FindBy(linkText="New User? Register Here")
    WebElement registerLink;

    public HomePage(WebDriver driver) {
        PageFactory.initElements(driver, this);

    }

    public String getURL_page()
    {
        String URLnew = driver.getCurrentUrl();
        return URLnew;
    }

    public String Validate_Text_On_Page()
    {
        String pageText = text.getText();
        System.out.println(pageText);
        return pageText;
    }

    public void click_register_link()
    {
        registerLink.click();
    }
```



```java
Run All
public class HomePageTest  extends TestBase {

HomePage hp;

    @BeforeTest
    public void start_browser()
    {
        OpenBrowser("Chrome");
        hp = new HomePage(driver);
    }


    @Test(priority='1')
    Run | Debug
    public void test_getTitle_page()
    {
        String expected = "http://localhost:9010/";
        String Actual = hp.getURL_page();
        Assert.assertEquals(Actual, expected);

    }

    @Test(priority='2')

    Run | Debug
    public void Test_Validate_Text_On_Page()
    {
        String expected = "Powered By Simplilearn";
        String actualText = hp.Validate_Text_On_Page();
        Assert.assertEquals(actualText, expected);
    }

    @Test(priority='3')
    Run | Debug
    public void test_click_register_link() throws InterruptedException
```

Output:



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 21:08:48 IST 2023 !

Register Yourself

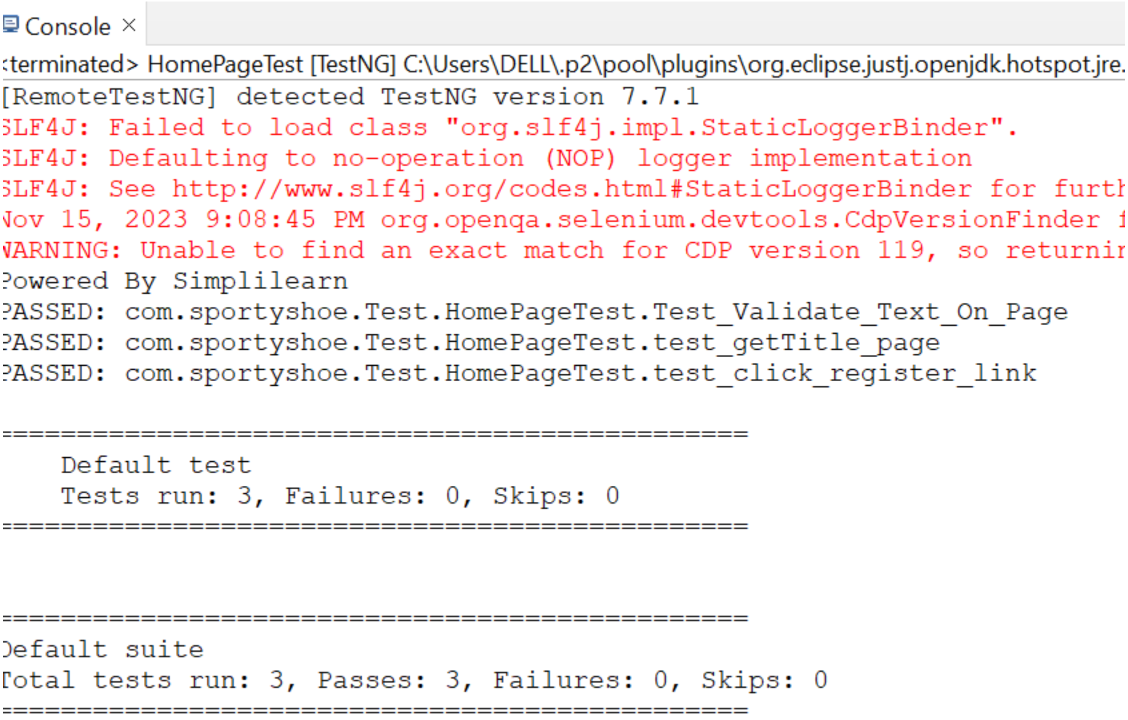
Name:

Enter Name

Email:

Enter email

Password:



```
:terminated> HomePageTest [TestNG] C:\Users\DELL\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for furth
Nov 15, 2023 9:08:45 PM org.openqa.selenium.devtools.CdpVersionFinder f
WARNING: Unable to find an exact match for CDP version 119, so returnin
Powered By Simplilearn
PASSED: com.sportyshoe.Test.HomePageTest.Test_Validate_Text_On_Page
PASSED: com.sportyshoe.Test.HomePageTest.test_getTitle_page
PASSED: com.sportyshoe.Test.HomePageTest.test_click_register_link

===============================================
    Default test
    Tests run: 3, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
===============================================
```

Source Code:

RegisterPage Class:

```
package com.sportyshoe.SeleniumCucumberScripts;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class RegisterPage extends TestBase {

	@FindBy(xpath="//input[@id='name']")
	WebElement registername;

	@FindBy(xpath="//input[@id='email']")
	WebElement registeremail;

	@FindBy(xpath="//input[@id='password']")
	WebElement registerpassword;

	@FindBy(xpath="//button[@type='submit']")
	WebElement registerBtn;

	@FindBy(xpath="//div[@class='mt-4 p-5 bg-primary text-white 
rounded']/descendant::p[3]")
	WebElement userText;


	public RegisterPage(WebDriver driver) {
		PageFactory.initElements(driver, this);

	}

	public void register_user()
	{
		registername.sendKeys("josh");
		registeremail.sendKeys("josh@gmail.com");
		registerpassword.sendKeys("josh@123");
		registerBtn.click();
	}

	public String validate_registration_URL()
	{
		String register_url = driver.getCurrentUrl();
		return register_url;
	}

	public String validate_registration_Text()
	{
		String user_name = userText.getText();
		return user_name;
	}
}
```

RegisterPageTest Class:

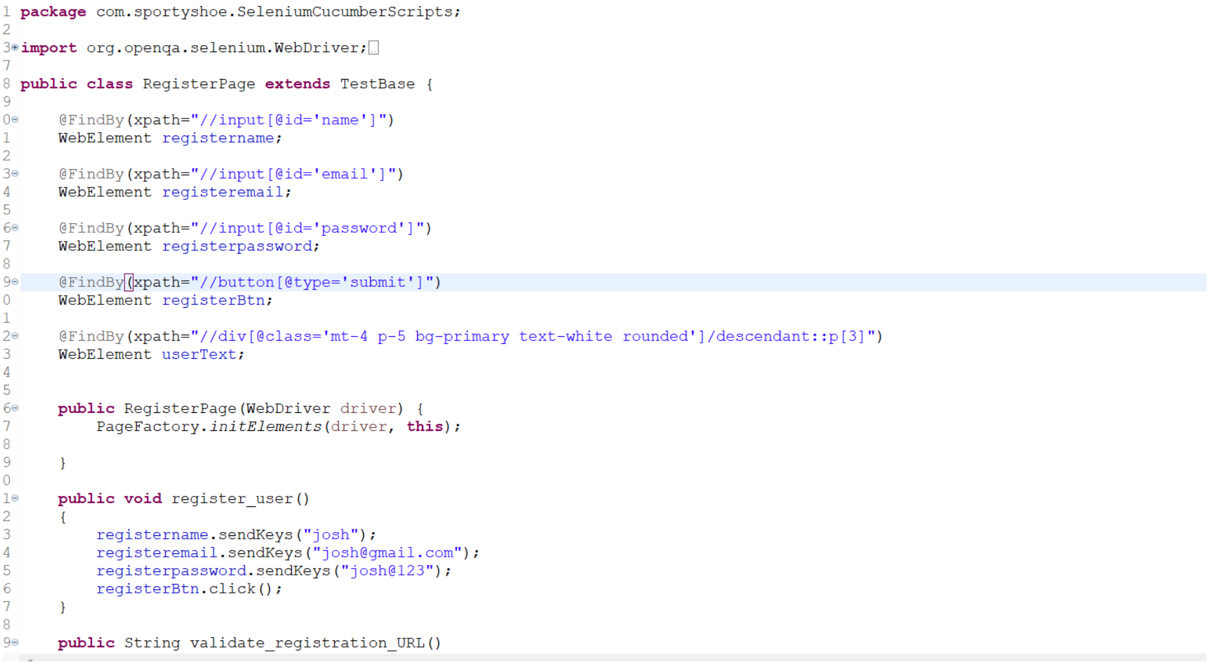
```
package com.sportyshoe.Test;
import static org.testng.Assert.assertEquals;
import org.testng.Assert;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoe.SeleniumCucumberScripts.HomePage;
import com.sportyshoe.SeleniumCucumberScripts.RegisterPage;
import com.sportyshoe.SeleniumCucumberScripts.TestBase;
public class RegisterPageTest extends TestBase{
HomePage hp;
RegisterPage rp;
@BeforeTest
public void start_browser()
{
OpenBrowser("Chrome");
hp = new HomePage(driver);
rp = new RegisterPage(driver);
}
@Test(priority='1')
public void test_click_register_link() throws InterruptedException
{
```

```
Thread.sleep(1500);
hp.click_register_link();
}
@Test(priority='2')
public void test_getTitle_page()
{
String expected = "http://localhost:9010/register";
String Actual = hp.getURL_page();
Assert.assertEquals(Actual, expected);
}
@Test(priority='3')
public void Test_register_user()
{
rp.register_user();
}
@Test(priority='4')
public void Test_validate_registration_URL()
{
String expected = "http://localhost:9010/register-user";
String Actual = rp.validate_registration_URL();
assertEquals(Actual, expected);
}
@Test(priority='5')
public void Test_validate_registration_Text()
```

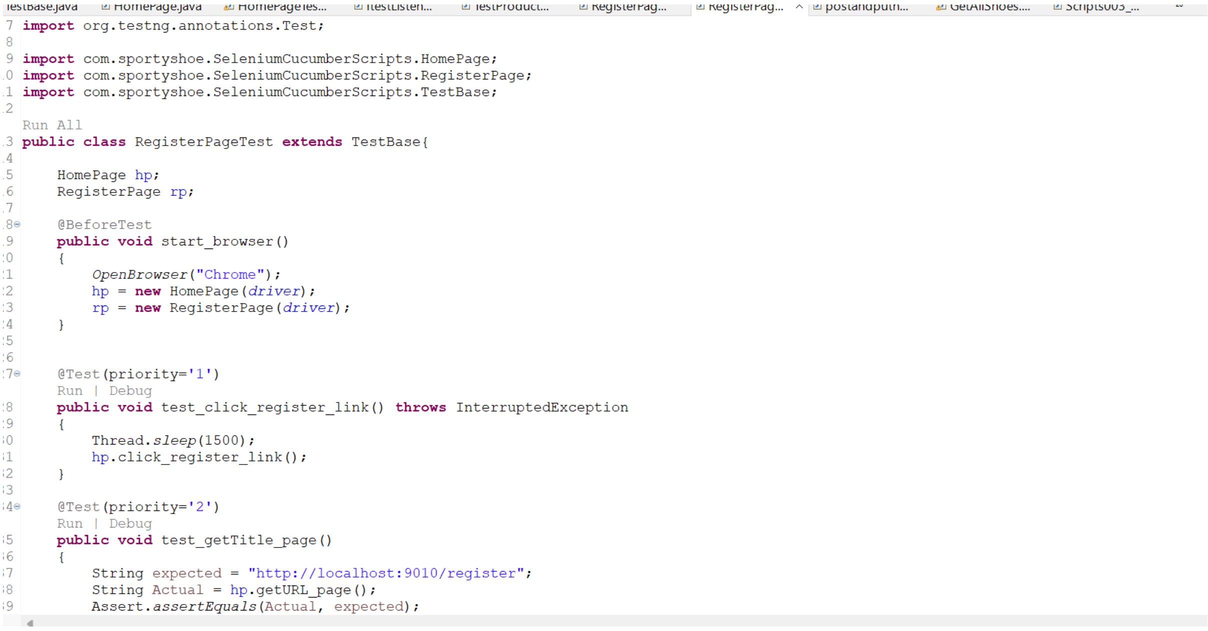
```
{

String expected = "Hello josh !";

String actualText = rp.validate_registration_Text();

Assert.assertEquals(actualText, expected);

}

}
```

ScreenShots:

Program:

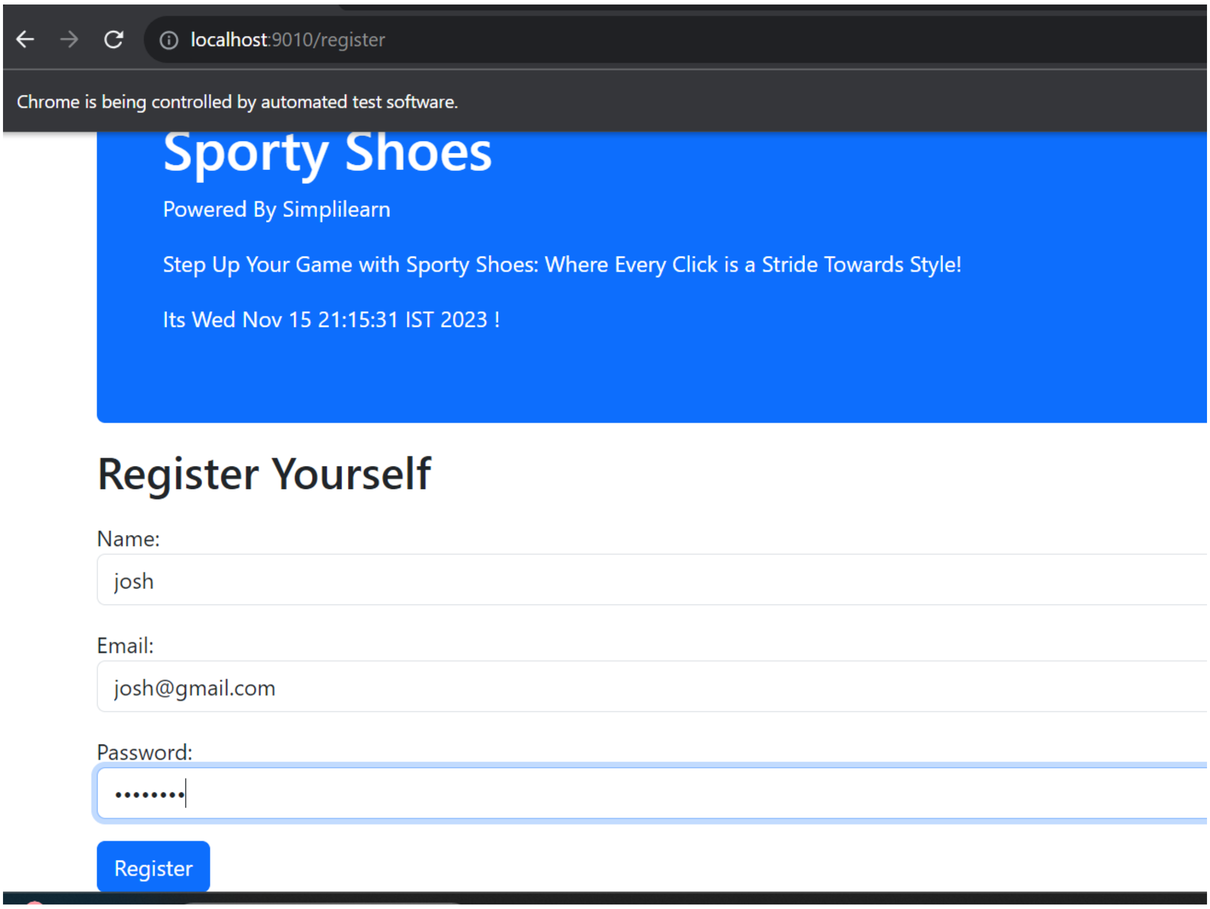


```
package com.sportyshoe.SeleniumCucumberScripts;

import org.openqa.selenium.WebDriver;

public class RegisterPage extends TestBase {

    @FindBy(xpath="//input[@id='name']")
    WebElement registername;

    @FindBy(xpath="//input[@id='email']")
    WebElement registeremail;

    @FindBy(xpath="//input[@id='password']")
    WebElement registerpassword;

    @FindBy(xpath="//button[@type='submit']")
    WebElement registerBtn;

    @FindBy(xpath="//div[@class='mt-4 p-5 bg-primary text-white rounded']/descendant::p[3]")
    WebElement userText;


    public RegisterPage(WebDriver driver) {
        PageFactory.initElements(driver, this);

    }

    public void register_user()
    {
        registername.sendKeys("josh");
        registeremail.sendKeys("josh@gmail.com");
        registerpassword.sendKeys("josh@123");
        registerBtn.click();
    }

    public String validate_registration_URL()
```



```java
import org.testng.annotations.Test;

import com.sportyshoe.SeleniumCucumberScripts.HomePage;
import com.sportyshoe.SeleniumCucumberScripts.RegisterPage;
import com.sportyshoe.SeleniumCucumberScripts.TestBase;

public class RegisterPageTest extends TestBase{

    HomePage hp;
    RegisterPage rp;

    @BeforeTest
    public void start_browser()
    {
        OpenBrowser("Chrome");
        hp = new HomePage(driver);
        rp = new RegisterPage(driver);
    }


    @Test(priority='1')
    public void test_click_register_link() throws InterruptedException
    {
        Thread.sleep(1500);
        hp.click_register_link();
    }

    @Test(priority='2')
    public void test_getTitle_page()
    {
        String expected = "http://localhost:9010/register";
        String Actual = hp.getURL_page();
        Assert.assertEquals(Actual, expected);
```

OutPut:



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!

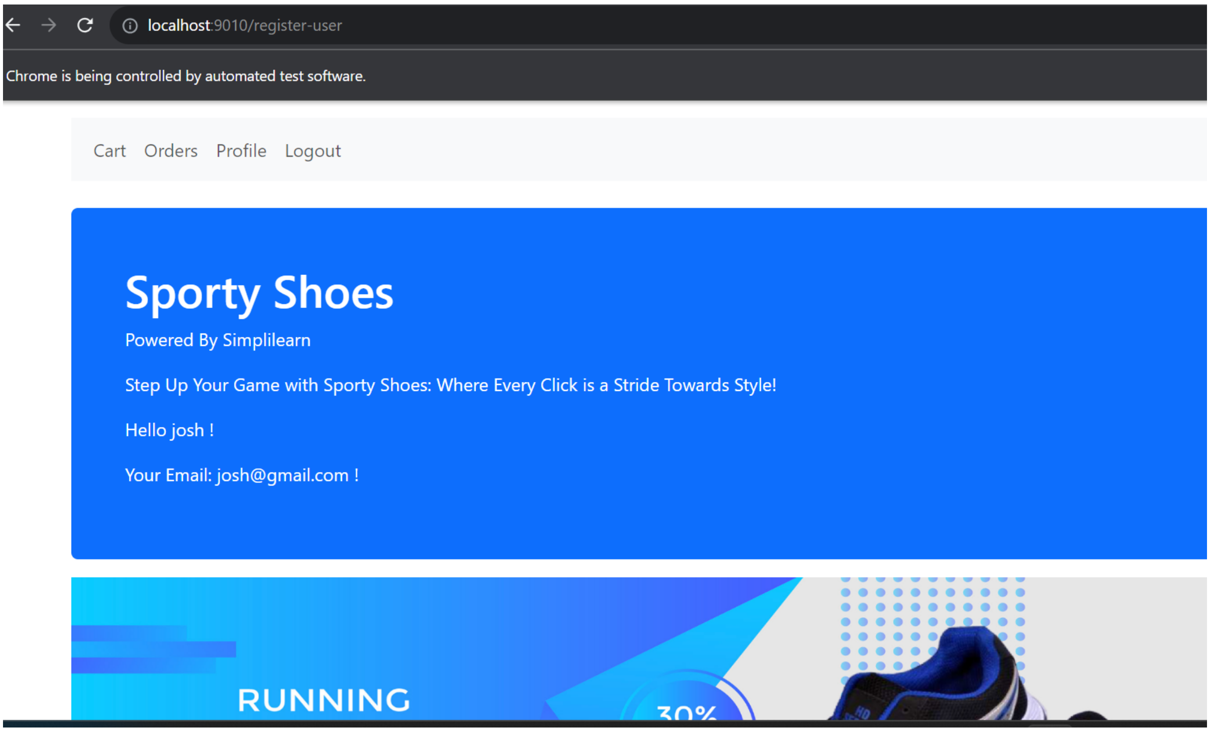
Its Wed Nov 15 21:15:31 IST 2023 !

Register Yourself

Name: josh

Email: josh@gmail.com

Password: ••••••••



localhost:9010/register-user
Chrome is being controlled by automated test software.
Cart
Orders
Profile
Logout

Sporty Shoes

Powered By Simplilearn

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

Hello josh !

Your Email: josh@gmail.com !

Source Code:

Program:

LoginPage Class:

```
package com.sportyshoe.SeleniumCucumberScripts;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class LoginPage {

        @FindBy(xpath="//input[@id='email']")
        WebElement loginEmail;

        @FindBy(xpath="//input[@id='password']")
        WebElement loginpassword;

        @FindBy(xpath="//button[@type='submit']")
        WebElement loginbtn;

        @FindBy(linkText="Cart")
        WebElement clickCart;
```

```
	public LoginPage(WebDriver driver) {
		PageFactory.initElements(driver, this);


	}

	public void user_login()
	{
		loginEmail.sendKeys("josh@gmail.com");
		loginpassword.sendKeys("josh@123");
		loginbtn.click();
	}


	public void click_cart()
	{
		clickCart.click();
	}

}
```

LoginPageTest Class:

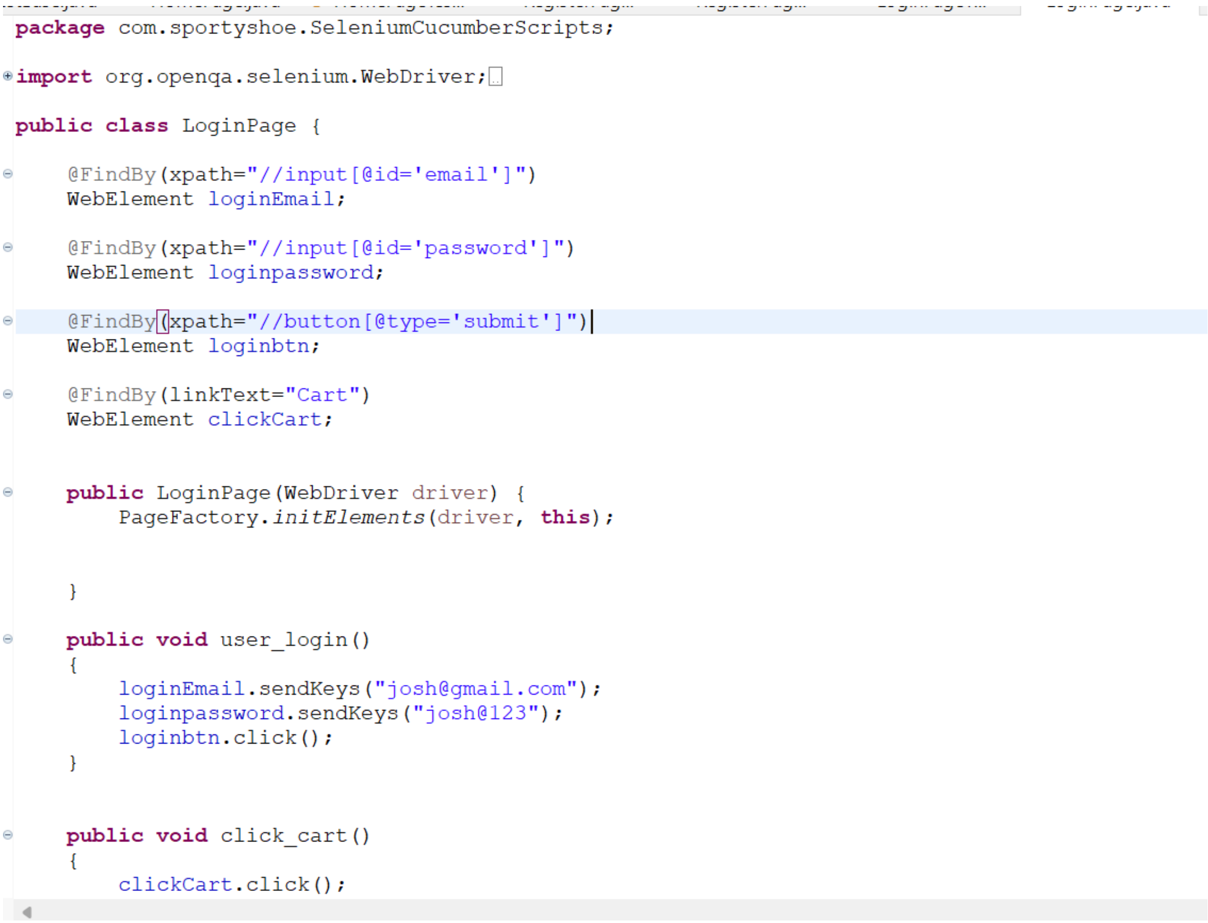
```
package com.sportyshoe.Test;

import org.testng.Assert;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

import com.sportyshoe.SeleniumCucumberScripts.HomePage;

import com.sportyshoe.SeleniumCucumberScripts.LoginPage;

import com.sportyshoe.SeleniumCucumberScripts.RegisterPage;

import com.sportyshoe.SeleniumCucumberScripts.TestBase;

public class LoginPageTest extends TestBase {

HomePage hp;

RegisterPage rp;
```

```
LoginPage lp;
@BeforeTest
public void start_browser()
{
OpenBrowser("Chrome");
hp = new HomePage(driver);
rp = new RegisterPage(driver);
lp = new LoginPage(driver);
}
@Test(priority='1')
public void test_login()
{
lp.user_login();
}
@Test(priority='2')
public void test_getTitle_page()
{
String expected = "http://localhost:9010/login";
String Actual = hp.getURL_page();
Assert.assertEquals(Actual, expected);
}
@Test(priority='3')
public void Test_validate_registration_Text()
{
```

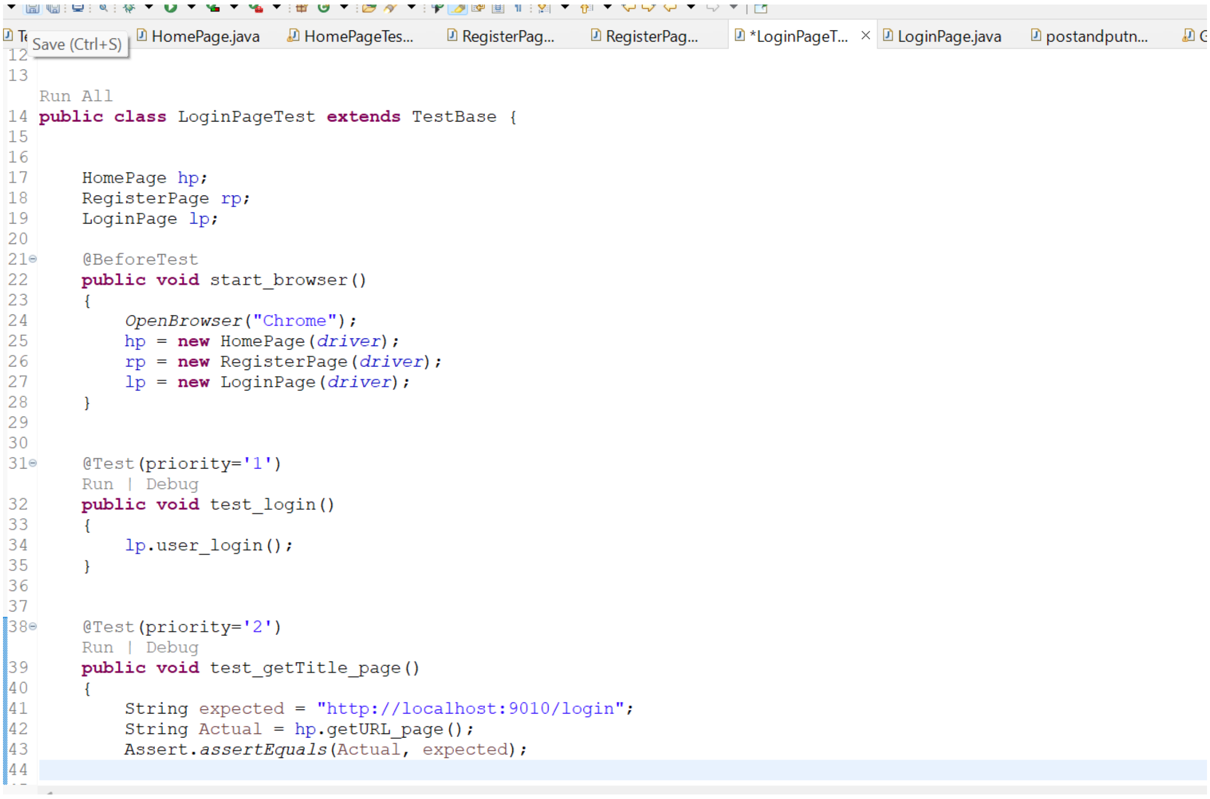
```
String expected = "Hello josh !";

String actualText = rp.validate_registration_Text();

Assert.assertEquals(actualText, expected);

}

@Test(priority='4')

public void test_click_cart()

{

lp.click_cart();

}

}
```

ScreenShots:

Program:

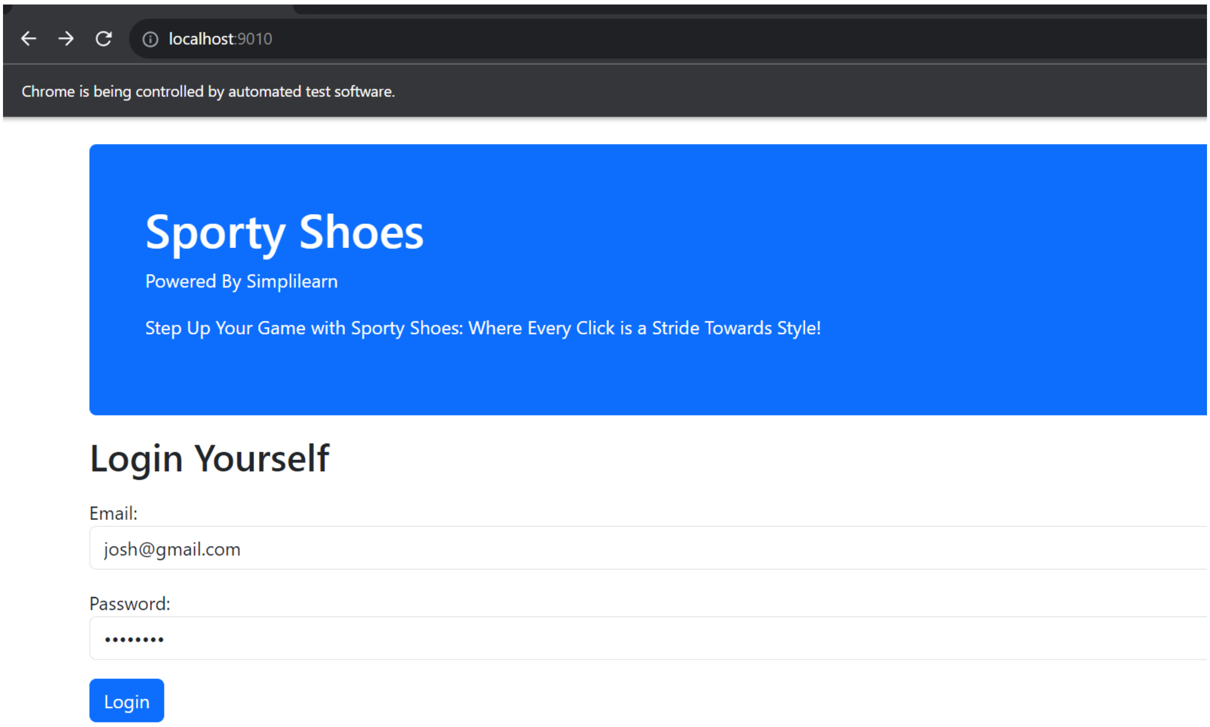


```java
package com.sportyshoe.SeleniumCucumberScripts;

import org.openqa.selenium.WebDriver;

public class LoginPage {

    @FindBy(xpath="//input[@id='email']")
    WebElement loginEmail;

    @FindBy(xpath="//input[@id='password']")
    WebElement loginpassword;

    @FindBy(xpath="//button[@type='submit']")
    WebElement loginbtn;

    @FindBy(linkText="Cart")
    WebElement clickCart;


    public LoginPage(WebDriver driver) {
        PageFactory.initElements(driver, this);


    }

    public void user_login()
    {
        loginEmail.sendKeys("josh@gmail.com");
        loginpassword.sendKeys("josh@123");
        loginbtn.click();
    }


    public void click_cart()
    {
        clickCart.click();
```



```java


Run All
public class LoginPageTest extends TestBase {


    HomePage hp;
    RegisterPage rp;
    LoginPage lp;

    @BeforeTest
    public void start_browser()
    {
        OpenBrowser("Chrome");
        hp = new HomePage(driver);
        rp = new RegisterPage(driver);
        lp = new LoginPage(driver);
    }


    @Test(priority='1')
    Run | Debug
    public void test_login()
    {
        lp.user_login();
    }


    @Test(priority='2')
    Run | Debug
    public void test_getTitle_page()
    {
        String expected = "http://localhost:9010/login";
        String Actual = hp.getURL_page();
        Assert.assertEquals(Actual, expected);

```

Output:



localhost:9010

Chrome is being controlled by automated test software.

Sporty Shoes

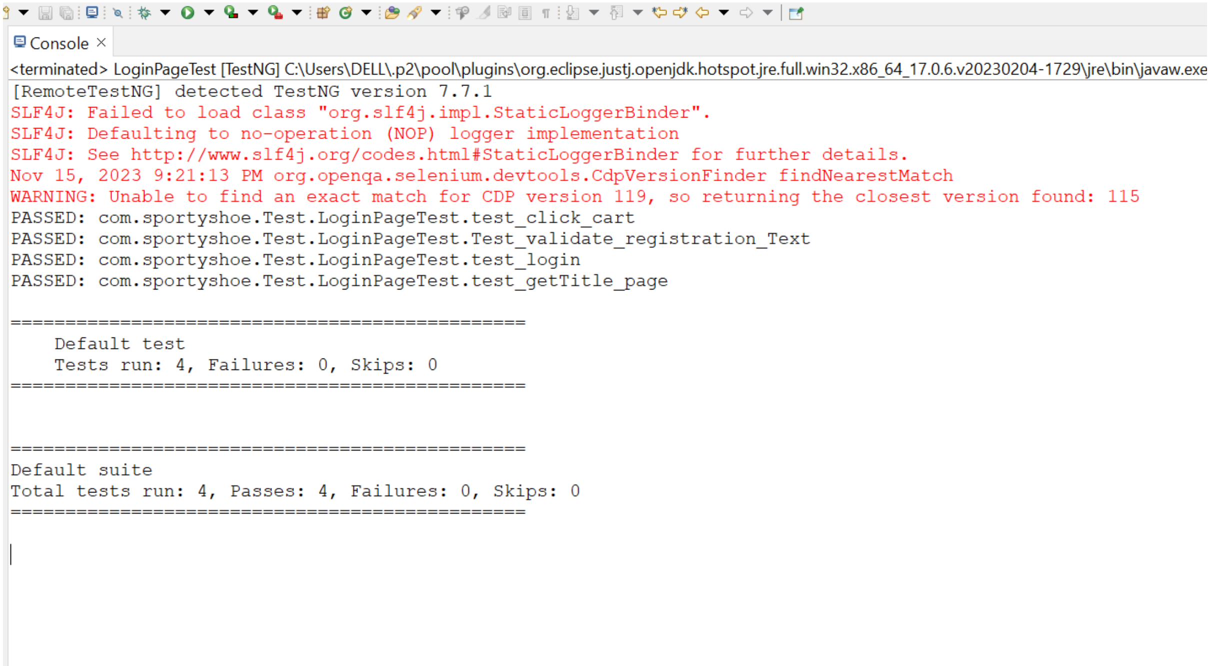
Powered By Simplilearn

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

Login Yourself

Email:
josh@gmail.com

Password:
••••••••



```
<terminated> LoginPageTest [TestNG] C:\Users\DELL\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 15, 2023 9:21:13 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 119, so returning the closest version found: 115
PASSED: com.sportyshoe.Test.LoginPageTest.test_click_cart
PASSED: com.sportyshoe.Test.LoginPageTest.Test_validate_registration_Text
PASSED: com.sportyshoe.Test.LoginPageTest.test_login
PASSED: com.sportyshoe.Test.LoginPageTest.test_getTitle_page

===============================================
    Default test
    Tests run: 4, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 4, Passes: 4, Failures: 0, Skips: 0
===============================================
```

Source Code:

AddToCardPage Class:

```
package com.sportyshoe.SeleniumCucumberScripts;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
public class AddtoCartPage {
@FindBy(xpath="//a[@id=\"shoe101\"]")
WebElement viewShoeBTN;
@FindBy(xpath = "//a[@id='cart101']")
WebElement addtocartBTN;
@FindBy(xpath="//div[@class='alert alert-success']/descendant::p[1]")
WebElement successText;
JavascriptExecutor executor;
public AddtoCartPage(WebDriver driver) {
PageFactory.initElements(driver, this);
executor = (JavascriptExecutor) driver;
}
public void add_product_to_cart() throws InterruptedException
{
executor.executeScript("arguments[0].click();", addtocartBTN);
}
public String validate_success_message()
{
```

```
String successtext = successText.getText();
return successtext;
}
}
```

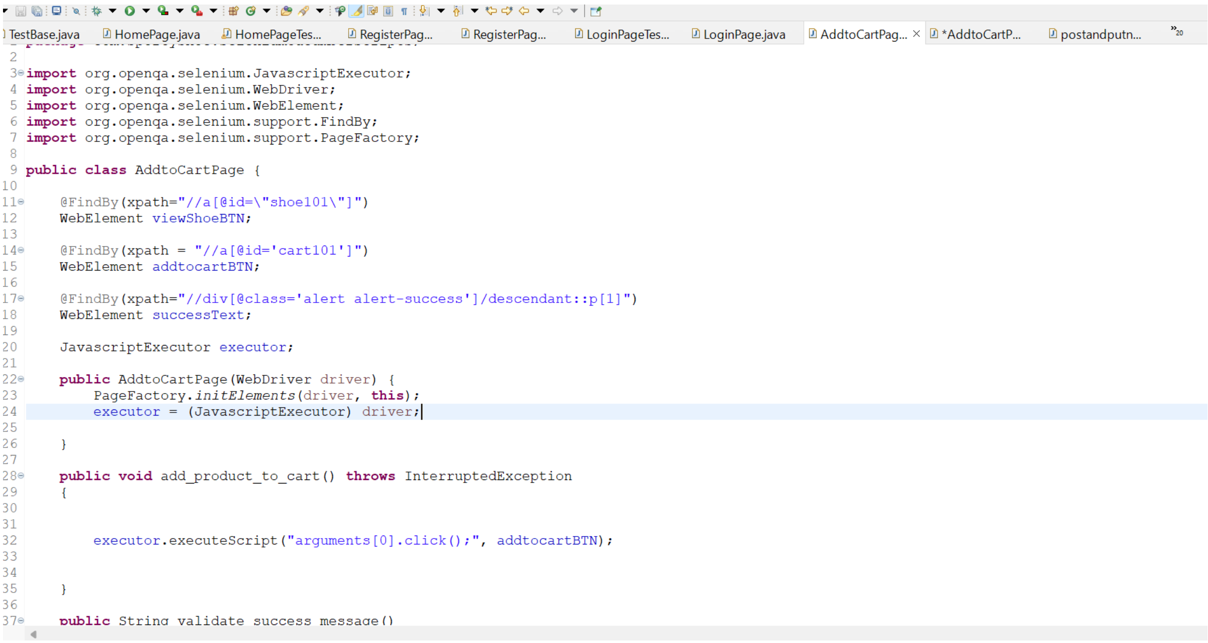
AddToCardPageTest Class:

```
package com.sportyshoe.Test;
import org.testng.Assert;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoe.SeleniumCucumberScripts.AddtoCartPage;
import com.sportyshoe.SeleniumCucumberScripts.HomePage;
import com.sportyshoe.SeleniumCucumberScripts.LoginPage;
import com.sportyshoe.SeleniumCucumberScripts.RegisterPage;
import com.sportyshoe.SeleniumCucumberScripts.TestBase;
public class AddtoCartPageTest extends TestBase{
HomePage hp;
RegisterPage rp;
LoginPage lp;
AddtoCartPage ac;
@BeforeTest
public void start_browser()
{
```

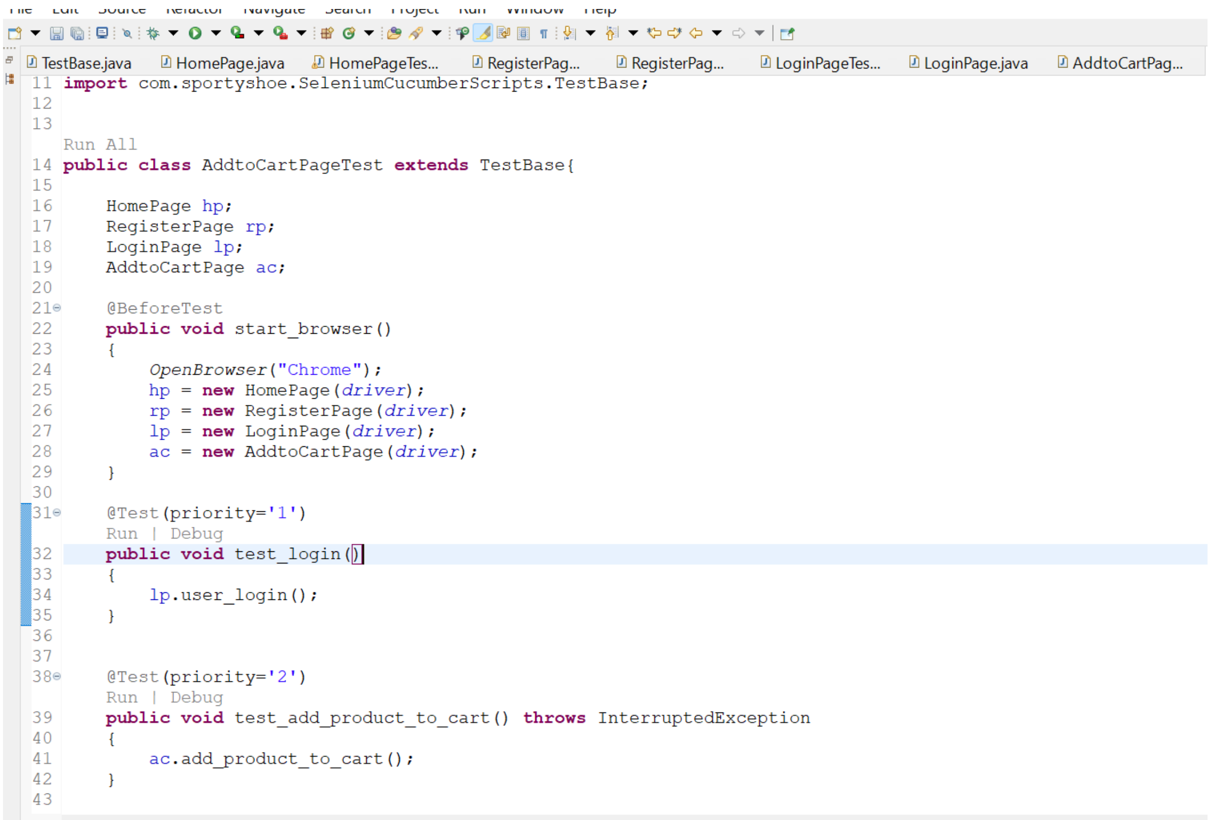
```
OpenBrowser("Chrome");

hp = new HomePage(driver);

rp = new RegisterPage(driver);

lp = new LoginPage(driver);

ac = new AddtoCartPage(driver);

}

@Test(priority='1')

public void test_login()

{

lp.user_login();

}

@Test(priority='2')

public void test_add_product_to_cart() throws InterruptedException

{

ac.add_product_to_cart();

}

@Test(priority='3')

public void test_validate_success_message()

{

String expected = "Message:Shoe BlueWave Running Shoes Added Successfully to Cart";

String actualText= ac.validate_success_message();

Assert.assertEquals(actualText, expected);

}

}
```

ScreenShots:

Program:

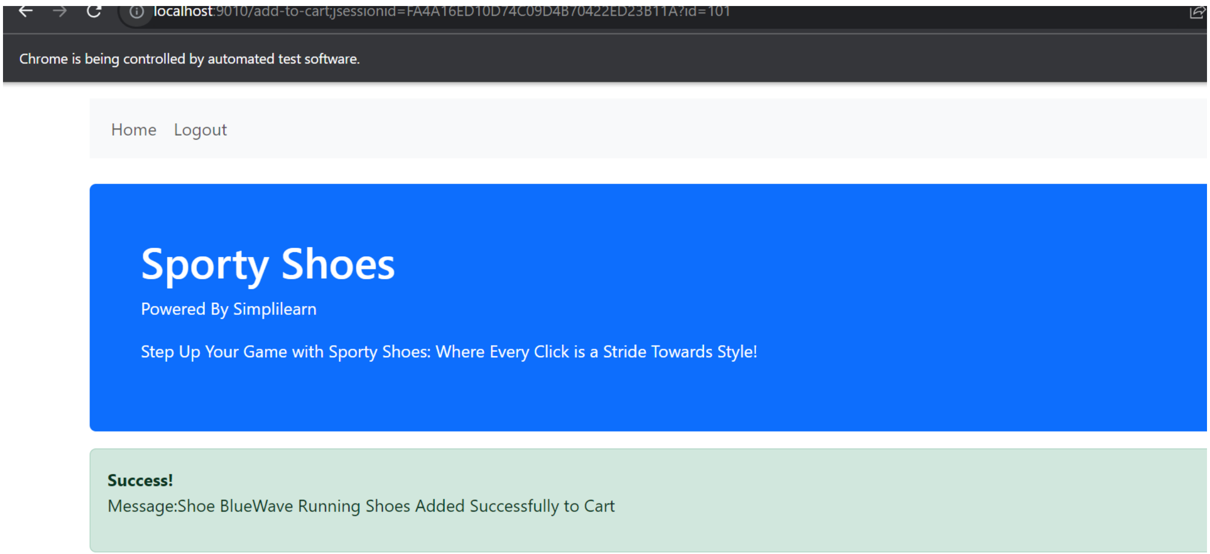


```java

import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class AddtoCartPage {

    @FindBy(xpath="//a[@id=\"shoe101\"]")
    WebElement viewShoeBTN;

    @FindBy(xpath = "//a[@id='cart101']")
    WebElement addtocartBTN;

    @FindBy(xpath="//div[@class='alert alert-success']/descendant::p[1]")
    WebElement successText;

    JavascriptExecutor executor;

    public AddtoCartPage(WebDriver driver) {
        PageFactory.initElements(driver, this);
        executor = (JavascriptExecutor) driver;

    }

    public void add_product_to_cart() throws InterruptedException
    {


        executor.executeScript("arguments[0].click();", addtocartBTN);


    }

    public String validate_success_message()
```



```java
import com.sportyshoe.SeleniumCucumberScripts.TestBase;


Run All
public class AddtoCartPageTest extends TestBase{

    HomePage hp;
    RegisterPage rp;
    LoginPage lp;
    AddtoCartPage ac;

    @BeforeTest
    public void start_browser()
    {
        OpenBrowser("Chrome");
        hp = new HomePage(driver);
        rp = new RegisterPage(driver);
        lp = new LoginPage(driver);
        ac = new AddtoCartPage(driver);
    }

    @Test(priority='1')
    Run | Debug
    public void test_login()
    {
        lp.user_login();
    }


    @Test(priority='2')
    Run | Debug
    public void test_add_product_to_cart() throws InterruptedException
    {
        ac.add_product_to_cart();
    }

```

Output:



localhost:9010/add-to-cart;jsessionid=FA4A16ED10D74C09D4B70422ED23B11A?id=101

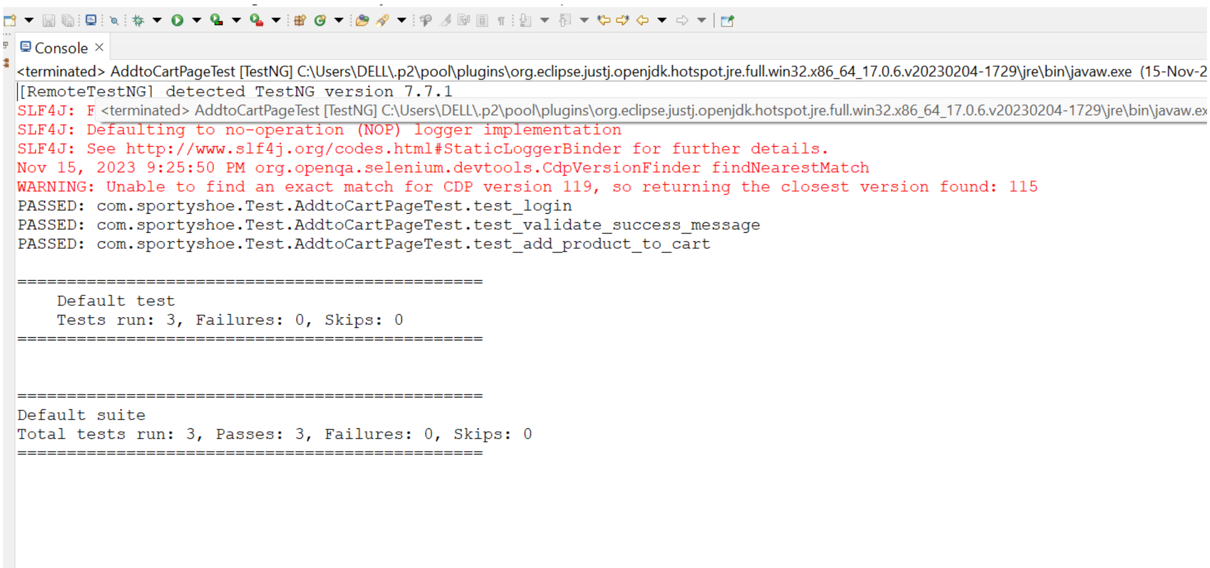
Chrome is being controlled by automated test software.

Sporty Shoes

Powered By Simplilearn

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

Success!
Message:Shoe BlueWave Running Shoes Added Successfully to Cart



```
<terminated> AddtoCartPageTest [TestNG] C:\Users\DELL\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe  (15-Nov-2
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: F <terminated> AddtoCartPageTest [TestNG] C:\Users\DELL\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.ex
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 15, 2023 9:25:50 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 119, so returning the closest version found: 115
PASSED: com.sportyshoe.Test.AddtoCartPageTest.test_login
PASSED: com.sportyshoe.Test.AddtoCartPageTest.test_validate_success_message
PASSED: com.sportyshoe.Test.AddtoCartPageTest.test_add_product_to_cart

===============================================
    Default test
    Tests run: 3, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
===============================================
```

Source Code:

OrderPage Class:

package com.sportyshoe.SeleniumCucumberScripts;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.PageFactory;

```
public class Orderpage {
@FindBy(linkText="Orders")
WebElement orderlink;
public Orderpage(WebDriver driver) {
PageFactory.initElements(driver, this);
}
public void click_orderPage()
{
orderlink.click();
}
}
```

OrderPageTest Class:

```
package com.sportyshoe.Test;
import org.testng.Assert;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoe.SeleniumCucumberScripts.HomePage;
import com.sportyshoe.SeleniumCucumberScripts.LoginPage;
import com.sportyshoe.SeleniumCucumberScripts.Orderpage;
import com.sportyshoe.SeleniumCucumberScripts.RegisterPage;
import com.sportyshoe.SeleniumCucumberScripts.TestBase;
public class OrderPageTest extends TestBase{
HomePage hp;
```

```
RegisterPage rp;
LoginPage lp;
Orderpage op;
@BeforeTest
public void start_browser()
{
OpenBrowser("Chrome");
hp = new HomePage(driver);
rp = new RegisterPage(driver);
lp = new LoginPage(driver);
op = new Orderpage(driver);
}
@Test(priority='1')
public void test_login()
{
lp.user_login();
}
@Test(priority='2')
public void test_click_orders()
{
op.click_orderPage();
}
@Test(priority='3')
public void test_getTitle_page()
```

String expected = "http://localhost:9010/orders";

String Actual = hp.getURL_page();

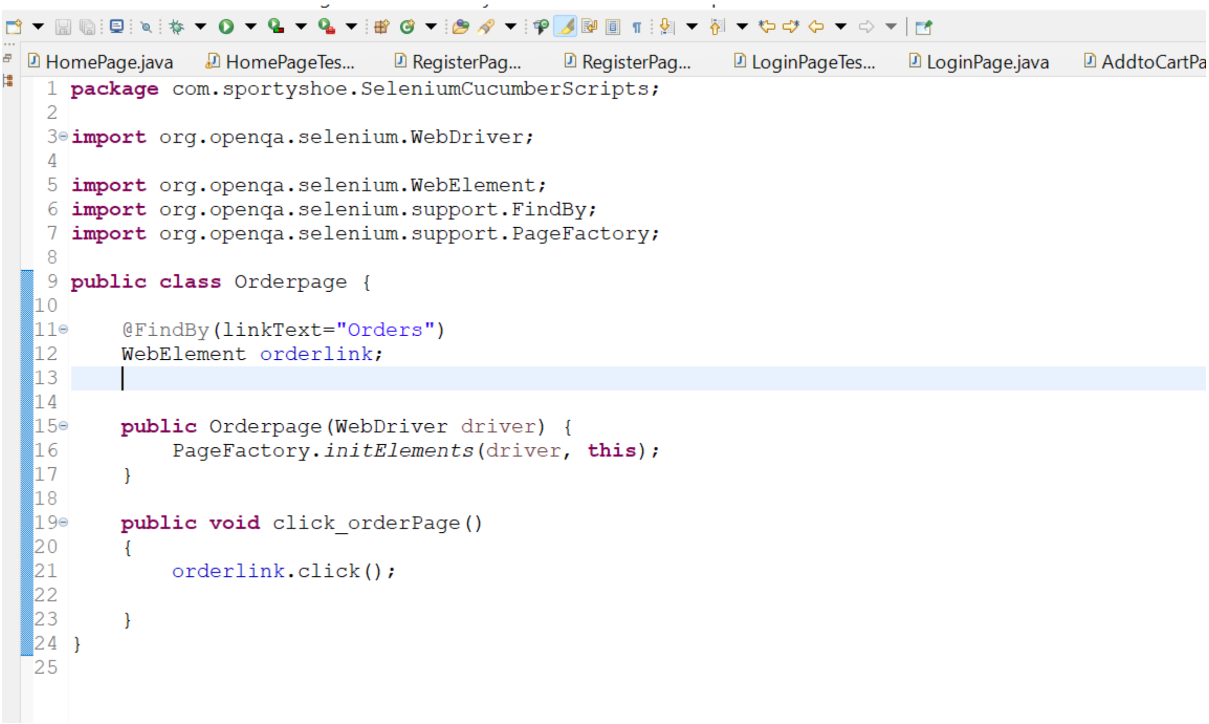
Assert.*assertEquals*(Actual, expected);

}

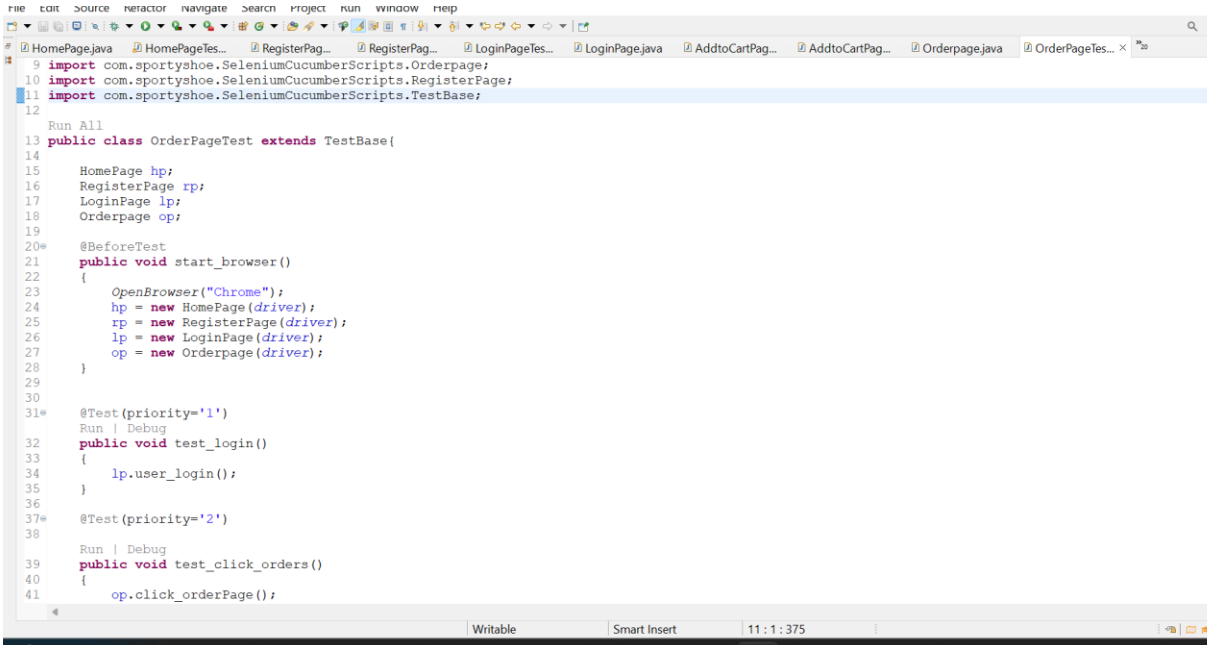
}

ScreenShots:

Program:

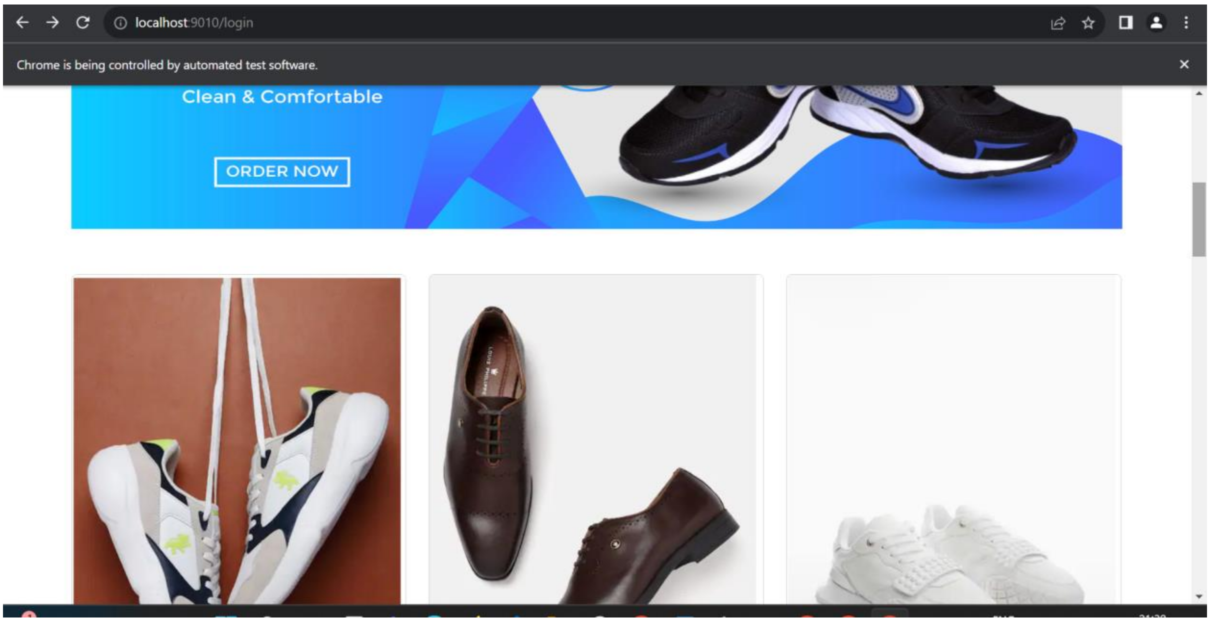


```
package com.sportyshoe.SeleniumCucumberScripts;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class Orderpage {

    @FindBy(linkText="Orders")
    WebElement orderlink;
    

    public Orderpage(WebDriver driver) {
        PageFactory.initElements(driver, this);
    }

    public void click_orderPage()
    {
        orderlink.click();

    }
}

```



```
import com.sportyshoe.SeleniumCucumberScripts.Orderpage;
import com.sportyshoe.SeleniumCucumberScripts.RegisterPage;
import com.sportyshoe.SeleniumCucumberScripts.TestBase;

Run All
public class OrderPageTest extends TestBase{

    HomePage hp;
    RegisterPage rp;
    LoginPage lp;
    Orderpage op;

    @BeforeTest
    public void start_browser()
    {
        OpenBrowser("Chrome");
        hp = new HomePage(driver);
        rp = new RegisterPage(driver);
        lp = new LoginPage(driver);
        op = new Orderpage(driver);
    }


    @Test(priority='1')
    Run | Debug
    public void test_login()
    {
        lp.user_login();
    }

    @Test(priority='2')

    Run | Debug
    public void test_click_orders()
    {
        op.click_orderPage();
```

Output:

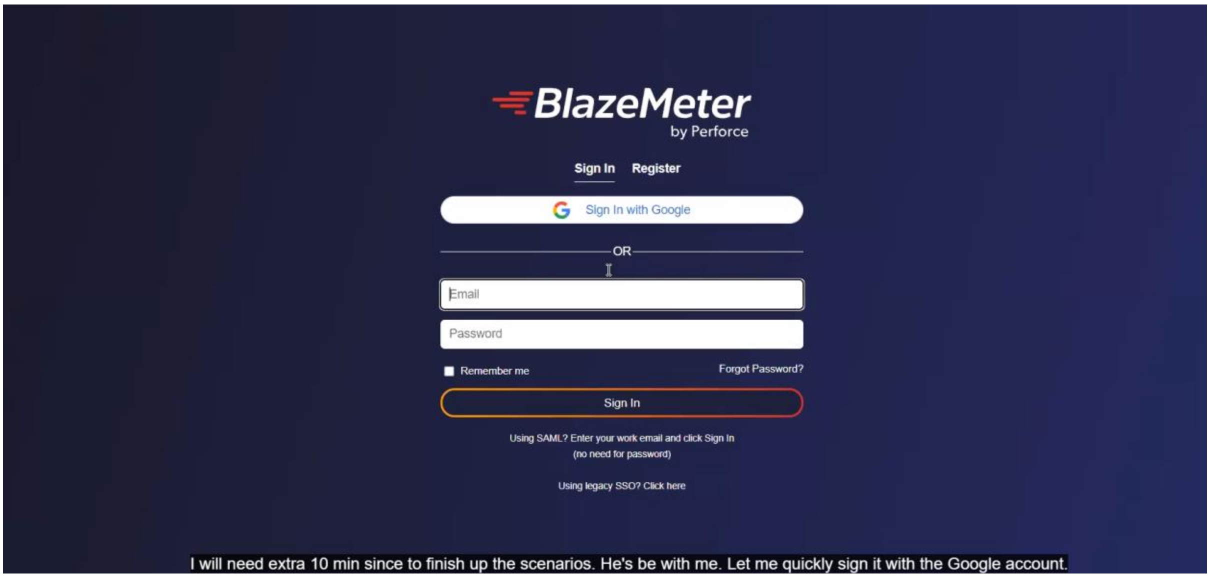


JMeter:

Steps:

Record the scripts using blaze meter.

Login to blaze mater.

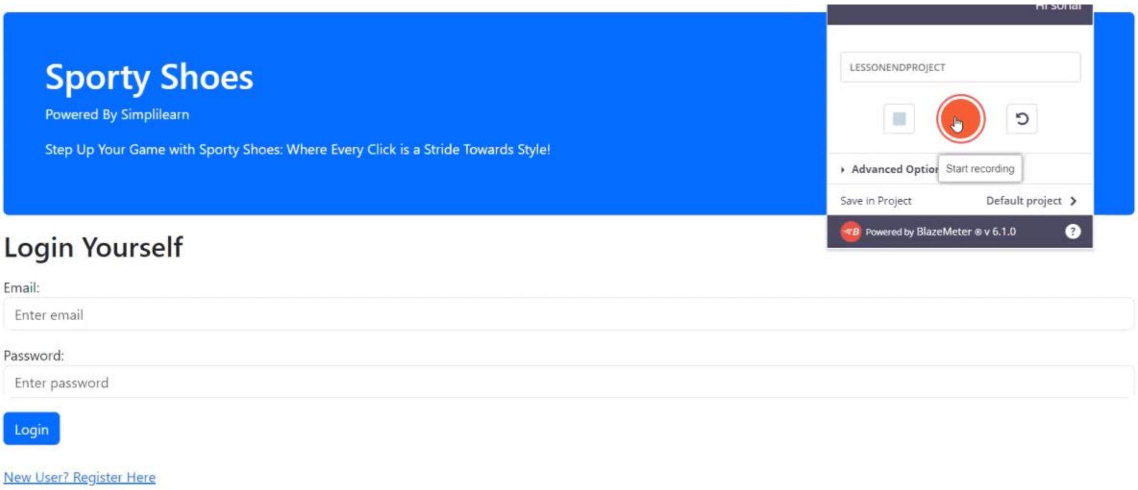


Using SAML? Enter your work email and click Sign In
(no need for password)

Using legacy SSO? Click here

I will need extra 10 min since to finish up the scenarios. He's be with me. Let me quickly sign it with the Google account.

Start recoding .



Sporty Shoes

Powered By Simplilearn

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

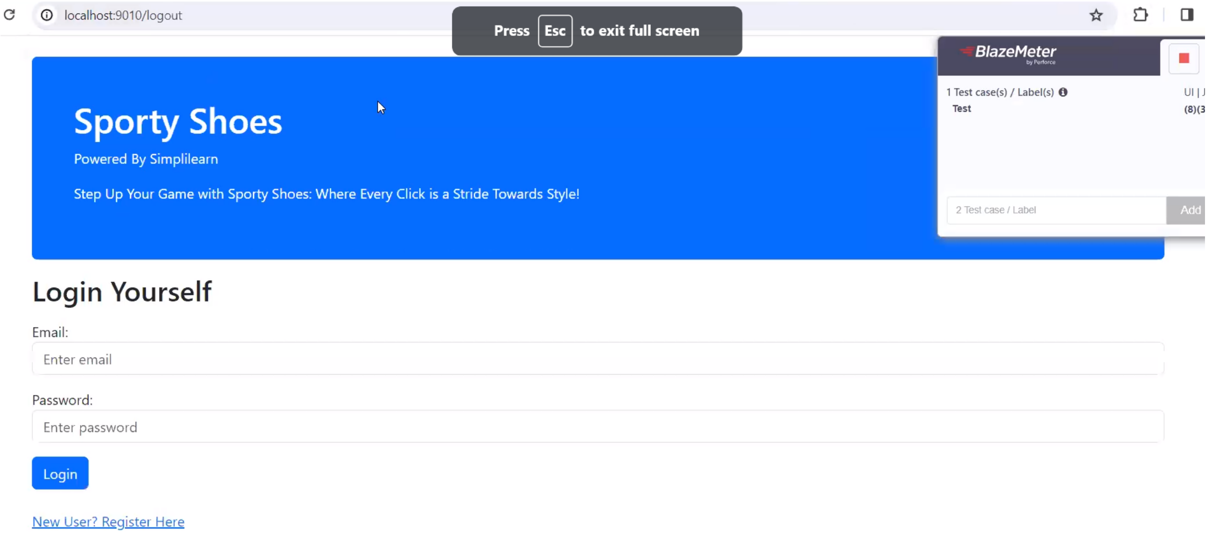
Login Yourself

Email: Enter email

Password: Enter password

Enter email and password .

Click on login.



Sporty Shoes

Powered By Simplilearn

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

Login Yourself

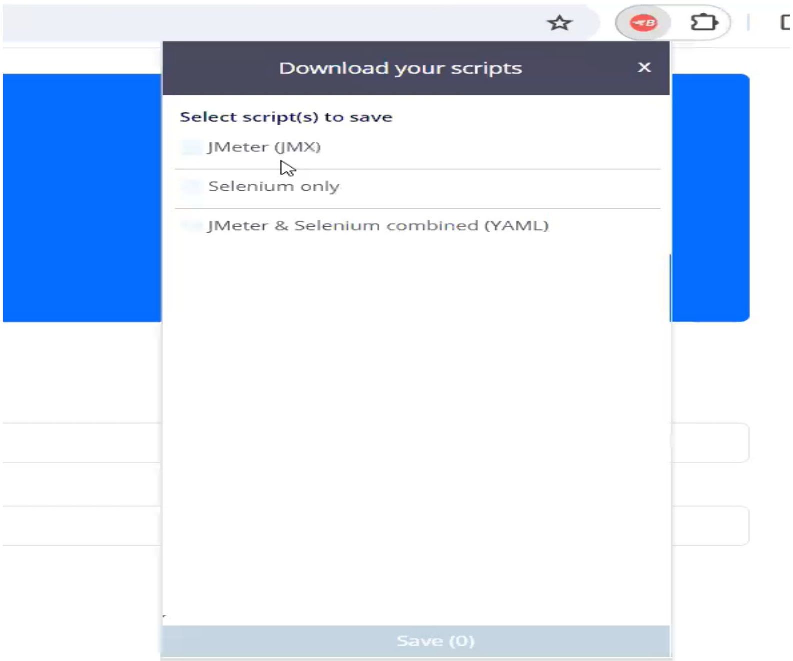
Email: Enter email

Password: Enter password

Login

New User? Register Here

Stop the recording and save .



Download your scripts

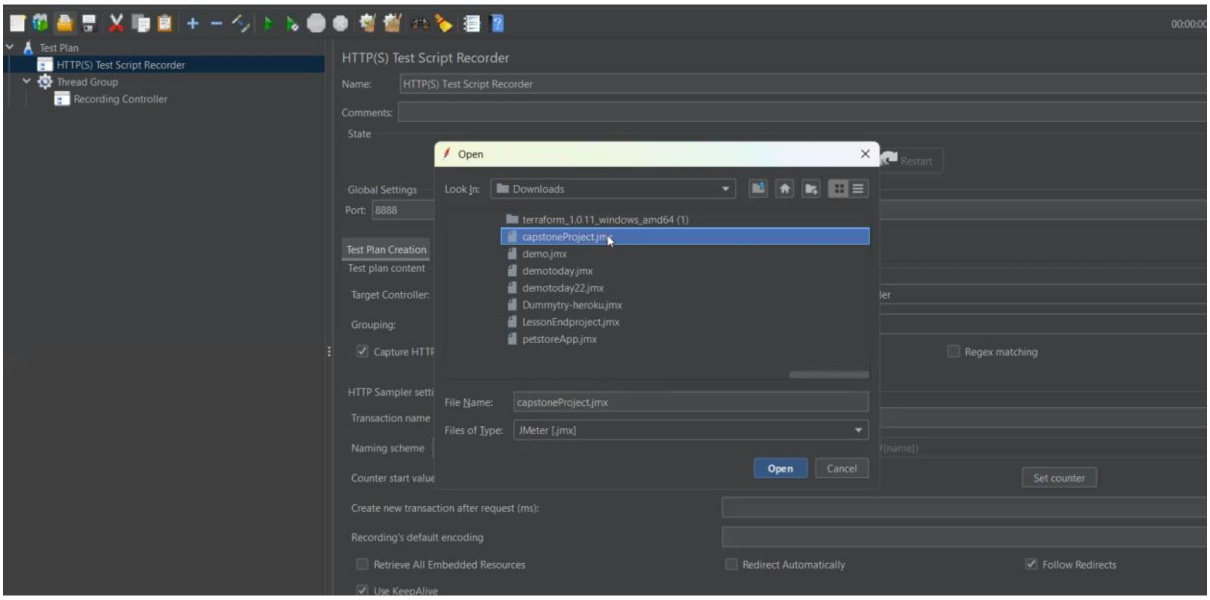
Select script(s) to save

□ JMeter (JMX)

□ Selenium only

□ JMeter & Selenium combined (YAML)

Import the recoded script from downloads .



Test Plan
HTTP(S) Test Script Recorder
Thread Group
Recording Controller

HTTP(S) Test Script Recorder

Name: HTTP(S) Test Script Recorder

Comments:

State

Global Settings

Port: 8888

Test plan content

Target Controller:

Grouping:

☑ Capture HTTP

□ Regex matching

HTTP Sampler setti

Transaction name

Naming scheme

Counter start value

Create new transaction after request (ms):

Recording's default encoding

□ Retrieve All Embedded Resources □ Redirect Automatically ☑ Follow Redirects

☑ Use KeepAlive

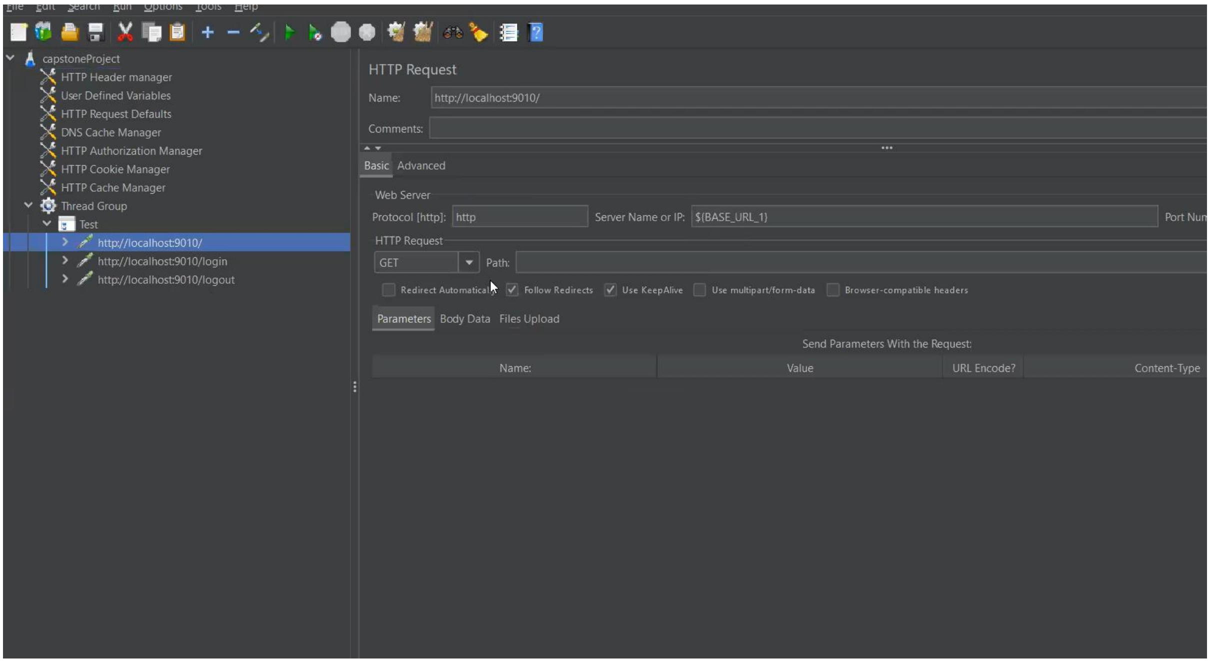
Open

Look In: Downloads

terraform_1.0.11_windows_amd64 (1)
capstoneProject.jmx
demo.jmx
demotoday.jmx
demotoday22.jmx
Dummytry-heroku.jmx
LessonEndproject.jmx
petstoreApp.jmx

File Name: capstoneProject.jmx

Files of Type: JMeter [.jmx]



capstoneProject
HTTP Header manager
User Defined Variables
HTTP Request Defaults
DNS Cache Manager
HTTP Authorization Manager
HTTP Cookie Manager
HTTP Cache Manager
Thread Group
Test
http://localhost:9010/
http://localhost:9010/login
http://localhost:9010/logout

HTTP Request

Name: http://localhost:9010/

Comments:

Web Server

Protocol [http]: http Server Name or IP: ${BASE_URL_1} Port Num

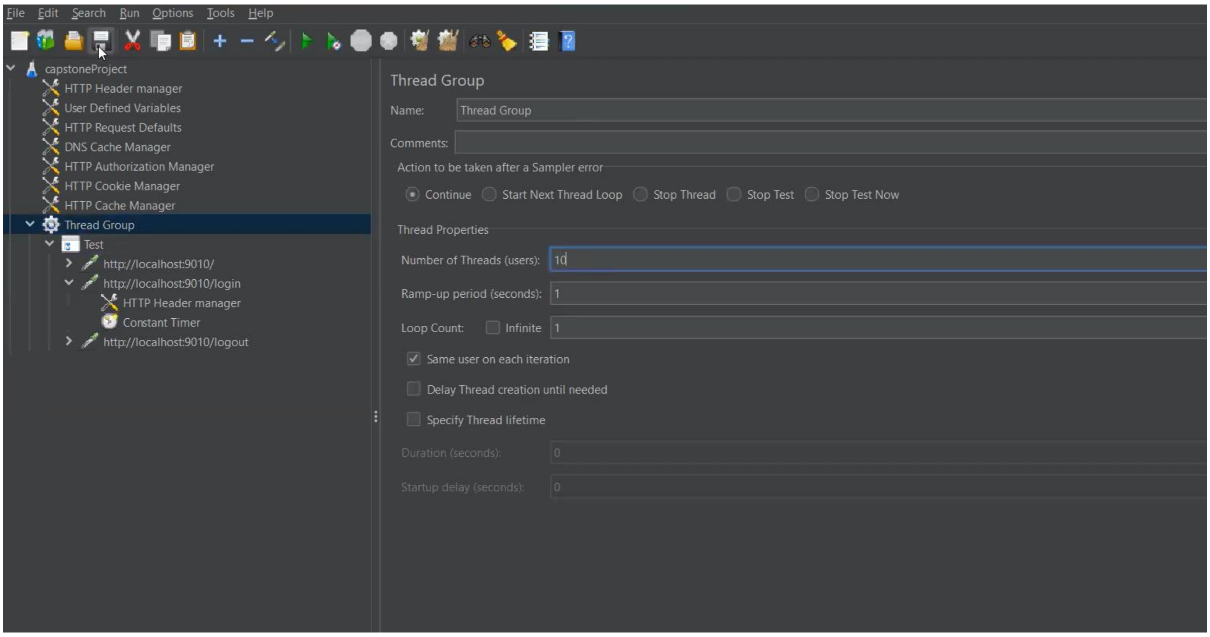
HTTP Request

GET Path:

□ Redirect Automatically ☑ Follow Redirects ☑ Use KeepAlive □ Use multipart/form-data □ Browser-compatible headers

Send Parameters With the Request:

Name:	Value	URL Encode?	Content-Type



Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error

● Continue ○ Start Next Thread Loop ○ Stop Thread ○ Stop Test ○ Stop Test Now

Thread Properties

Number of Threads (users): 10

Ramp-up period (seconds): 1

Loop Count: □ Infinite 1

☑ Same user on each iteration

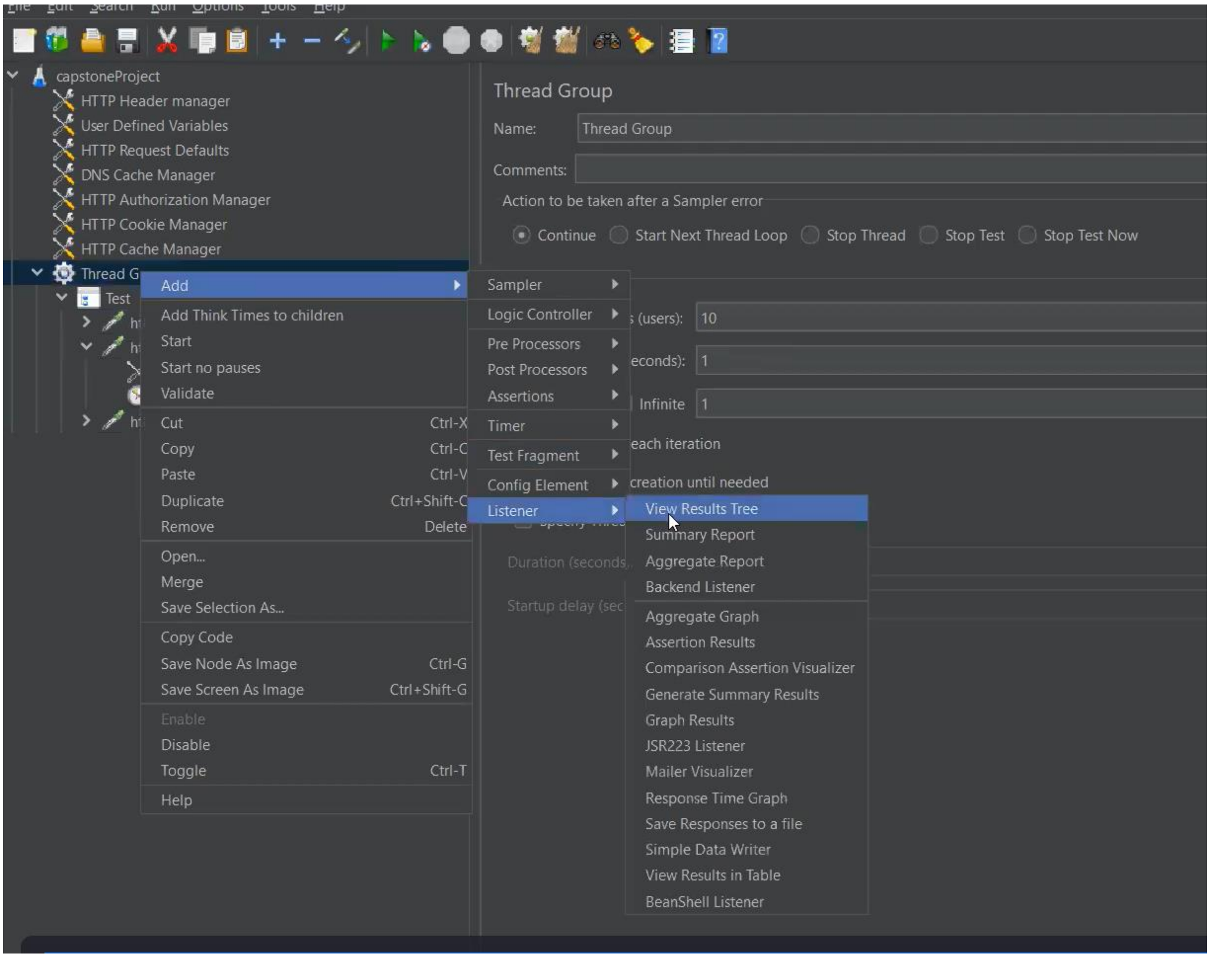
□ Delay Thread creation until needed

□ Specify Thread lifetime

Duration (seconds): 0

Startup delay (seconds): 0

In the thread group add the Listener



Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error

● Continue ○ Start Next Thread Loop ○ Stop Thread ○ Stop Test ○ Stop Test Now

s (users): 10

econds): 1

Infinite 1

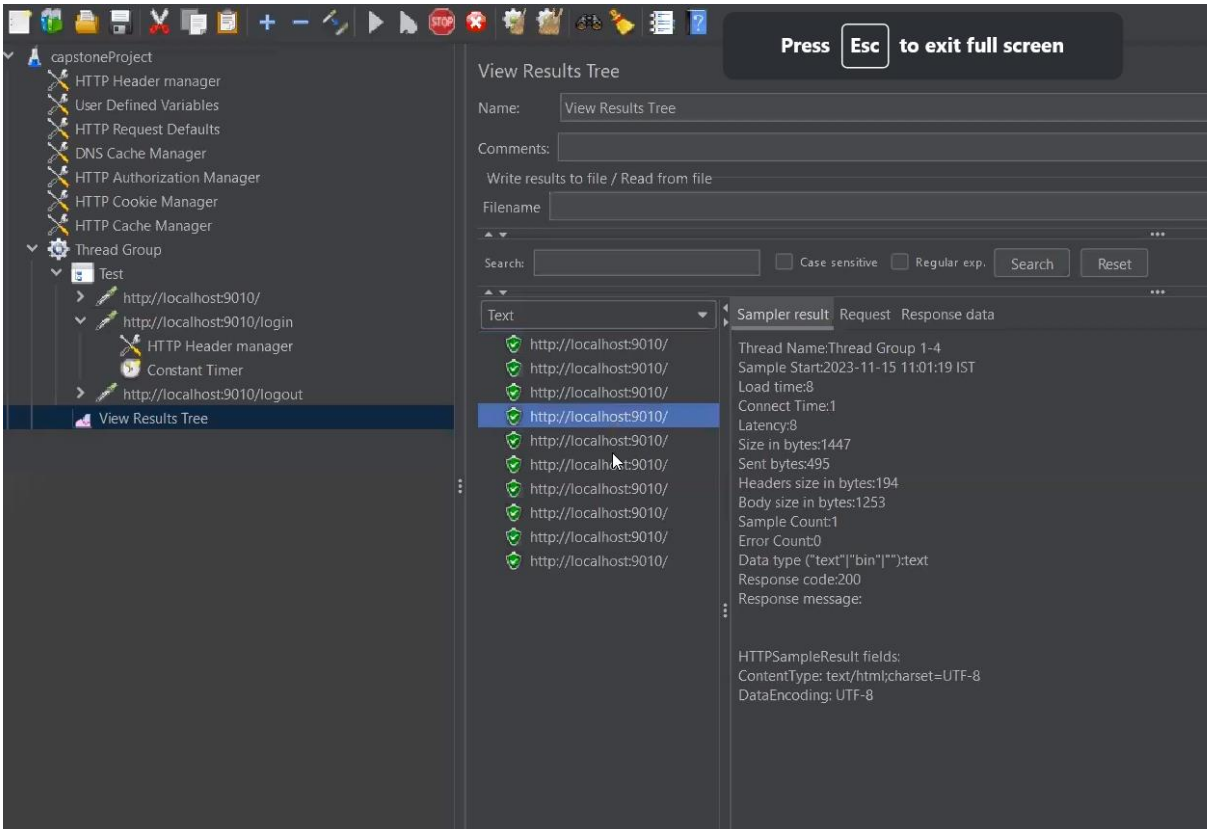
each iteration

creation until needed

Duration (seconds

Startup delay (sec

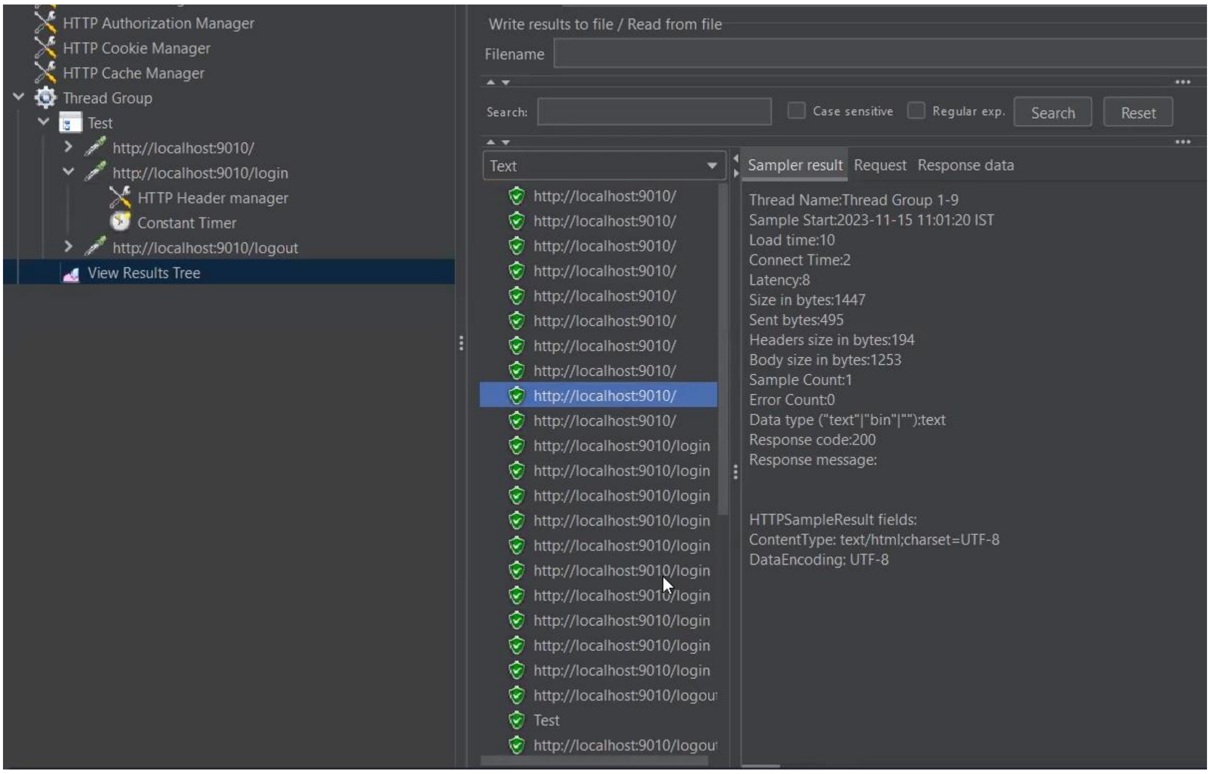
Click on run.



Name: View Results Tree

Comments:

```
Thread Name:Thread Group 1-4
Sample Start:2023-11-15 11:01:19 IST
Load time:8
Connect Time:1
Latency:8
Size in bytes:1447
Sent bytes:495
Headers size in bytes:194
Body size in bytes:1253
Sample Count:1
Error Count:0
Data type ("text"|"bin"|""):text
Response code:200
Response message:


HTTPSampleResult fields:
ContentType: text/html;charset=UTF-8
DataEncoding: UTF-8
```


HTTP Authorization Manager
HTTP Cookie Manager
HTTP Cache Manager
Thread Group
Test
http://localhost:9010/
http://localhost:9010/login
HTTP Header manager
Constant Timer
http://localhost:9010/logout
View Results Tree
Write results to file / Read from file
Filename
Search:
Case sensitive
Regular exp.
Search
Reset
Text
Sampler result
Request
Response data
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/login
http://localhost:9010/logout
Test
http://localhost:9010/logout

```
Thread Name:Thread Group 1-9
Sample Start:2023-11-15 11:01:20 IST
Load time:10
Connect Time:2
Latency:8
Size in bytes:1447
Sent bytes:495
Headers size in bytes:194
Body size in bytes:1253
Sample Count:1
Error Count:0
Data type ("text"|"bin"|""):text
Response code:200
Response message:


HTTPSampleResult fields:
ContentType: text/html;charset=UTF-8
DataEncoding: UTF-8
```

Cucumber:

Feature file:

Feature: Implement The Capstone Project

Scenario: Rest API testing on localhost:9010

Given User send a get request to get all the shoes

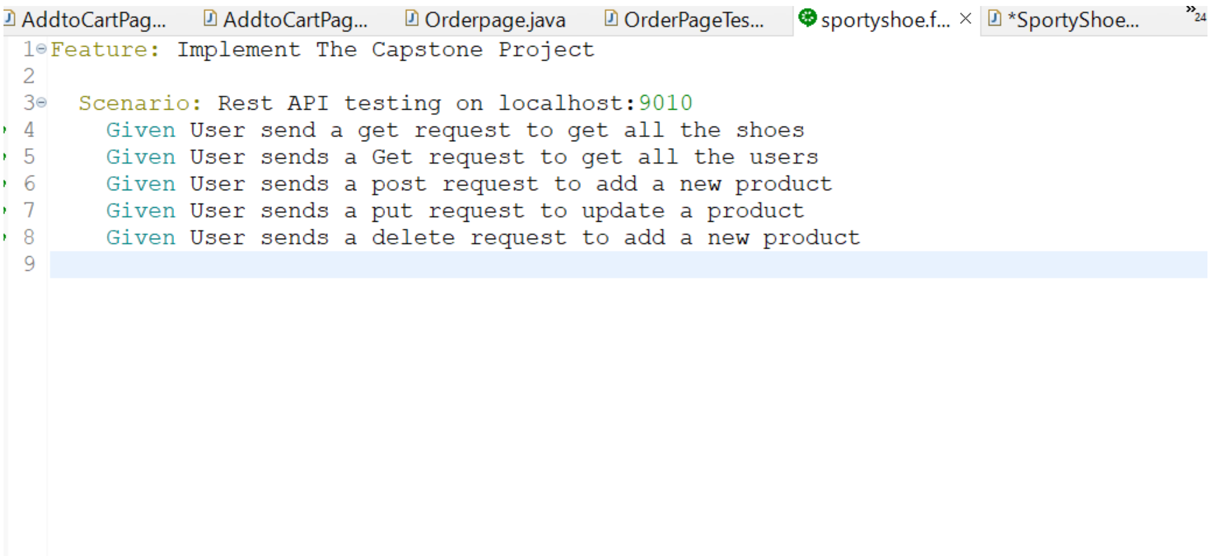
Given User sends a Get request to get all the users

Given User sends a post request to add a new product

Given User sends a put request to update a product

Given User sends a delete request to add a new product

ScreenShot:



```
Feature: Implement The Capstone Project

  Scenario: Rest API testing on localhost:9010
    Given User send a get request to get all the shoes
    Given User sends a Get request to get all the users
    Given User sends a post request to add a new product
    Given User sends a put request to update a product
    Given User sends a delete request to add a new product

```

Steps:

Source Code:

package steps;

import io.cucumber.java.en.Given;

import io.restassured.RestAssured;

public class SportyShoe_steps {

@Given("User send a get request to get all the shoes")

public void user_send_a_get_request_to_get_all_the_shoes() {

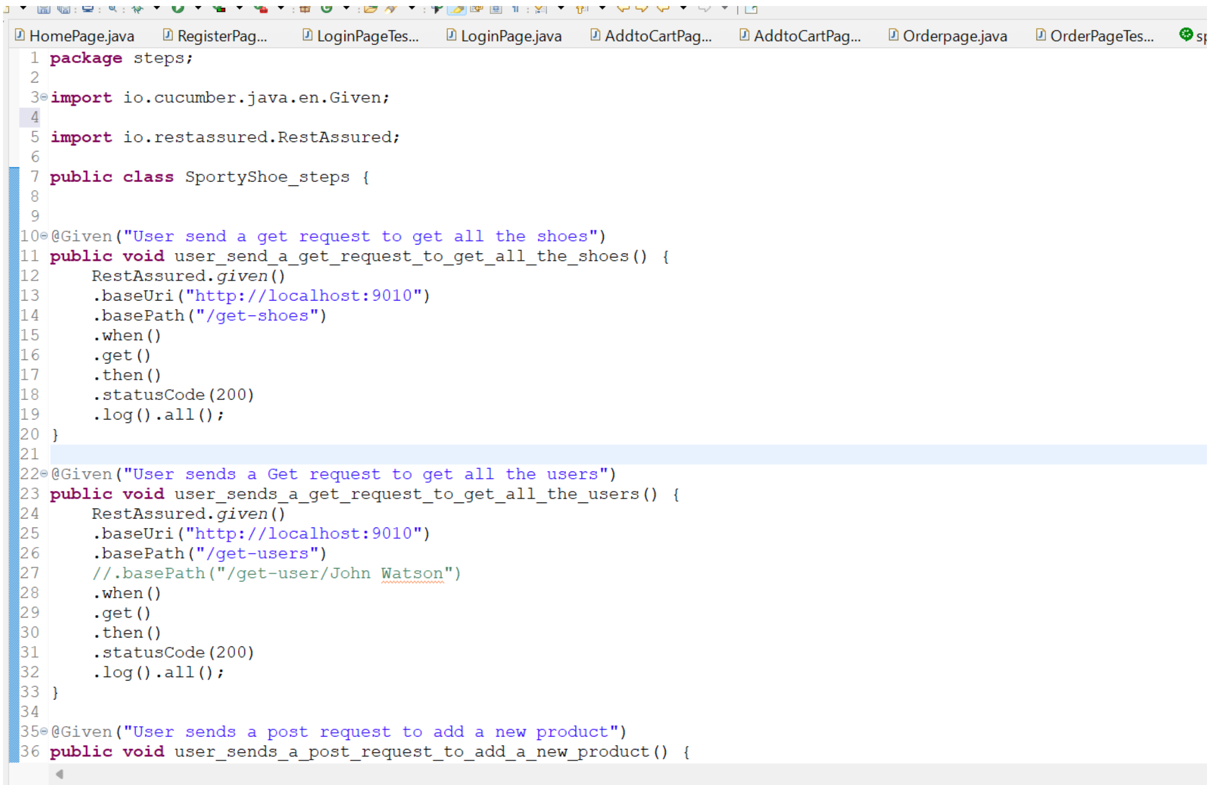
```
RestAssured.given()
.baseUri("http://localhost:9010")
.basePath("/get-shoes")
.when()
.get()
.then()
.statusCode(200)
.log().all();
}
@Given("User sends a Get request to get all the users")
public void user_sends_a_get_request_to_get_all_the_users() {
RestAssured.given()
.baseUri("http://localhost:9010")
.basePath("/get-users")
//.basePath("/get-user/John Watson")
.when()
.get()
.then()
.statusCode(200)
.log().all();
}
@Given("User sends a post request to add a new product")
public void user_sends_a_post_request_to_add_a_new_product() {
RestAssured.given()
```

```
.baseUri("http://localhost:9010")
.basePath("/add-shoe")
.queryParam("id","1020")
.queryParam("image", "www.imge.com")
.queryParam("name","Nike")
.queryParam("category", "Running")
.queryParam("sizes","5,6,7")
.queryParam("price", "2000")
.when()
.post()
.then()
.log().all();
}
@Given("User sends a put request to update a product")
public void user_sends_a_put_request_to_update_a_product() {
RestAssured.given()
.baseUri("http://localhost:9010")
.basePath("/update-shoe")
.queryParam("id","1020")
.queryParam("image", "www.imge123.com")
.queryParam("name","Reebok")
.queryParam("category", "Running")
.queryParam("sizes","5,6,7")
.queryParam("price", "2500")
```

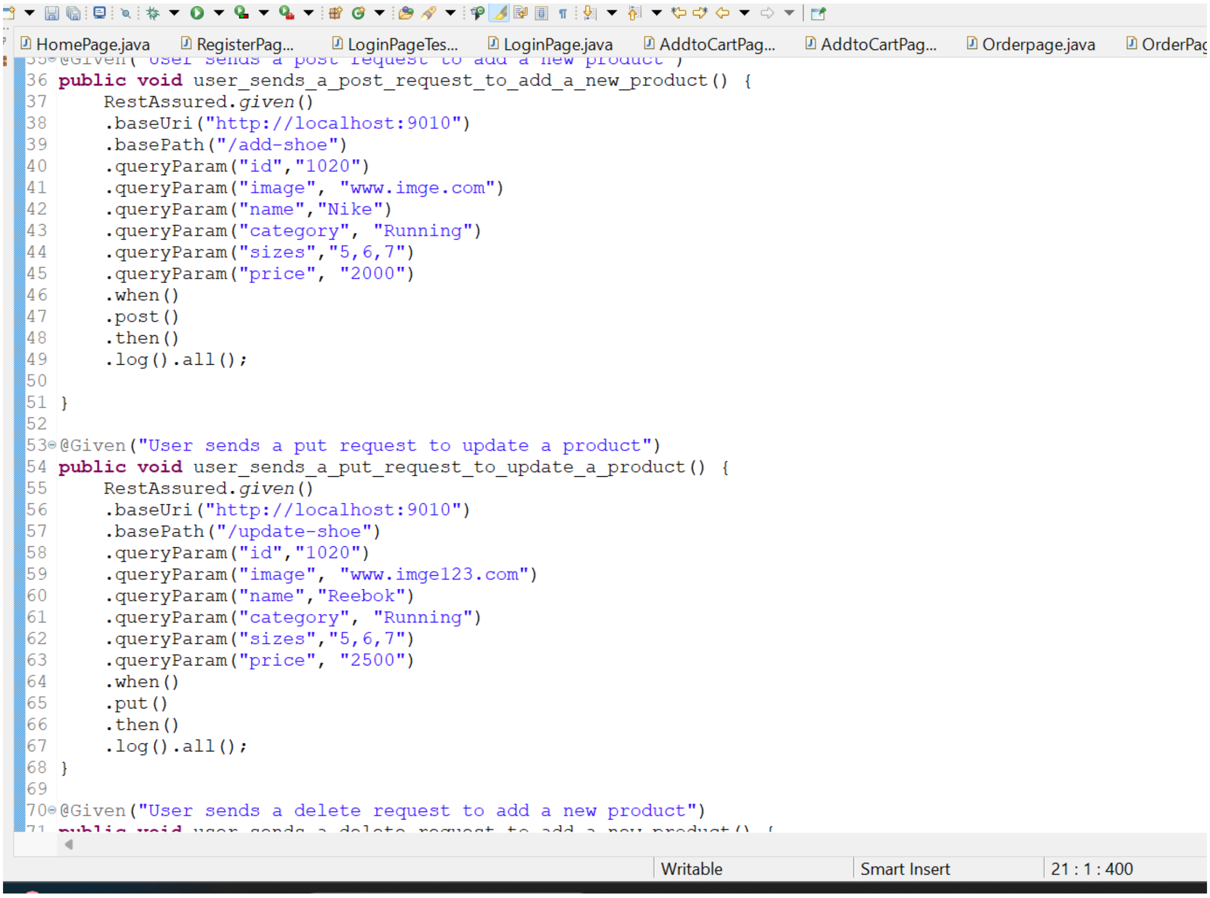
```
.when()

.put()

.then()

.log().all();

}

@Given("User sends a delete request to add a new product")

public void user_sends_a_delete_request_to_add_a_new_product() {

RestAssured.given()

.baseUri("http://localhost:9010")

.basePath("/update-shoe")

.queryParam("id","1020")

.when()

.delete()

.then()

.log().all();

}

}
```

ScreenShots:

Program:

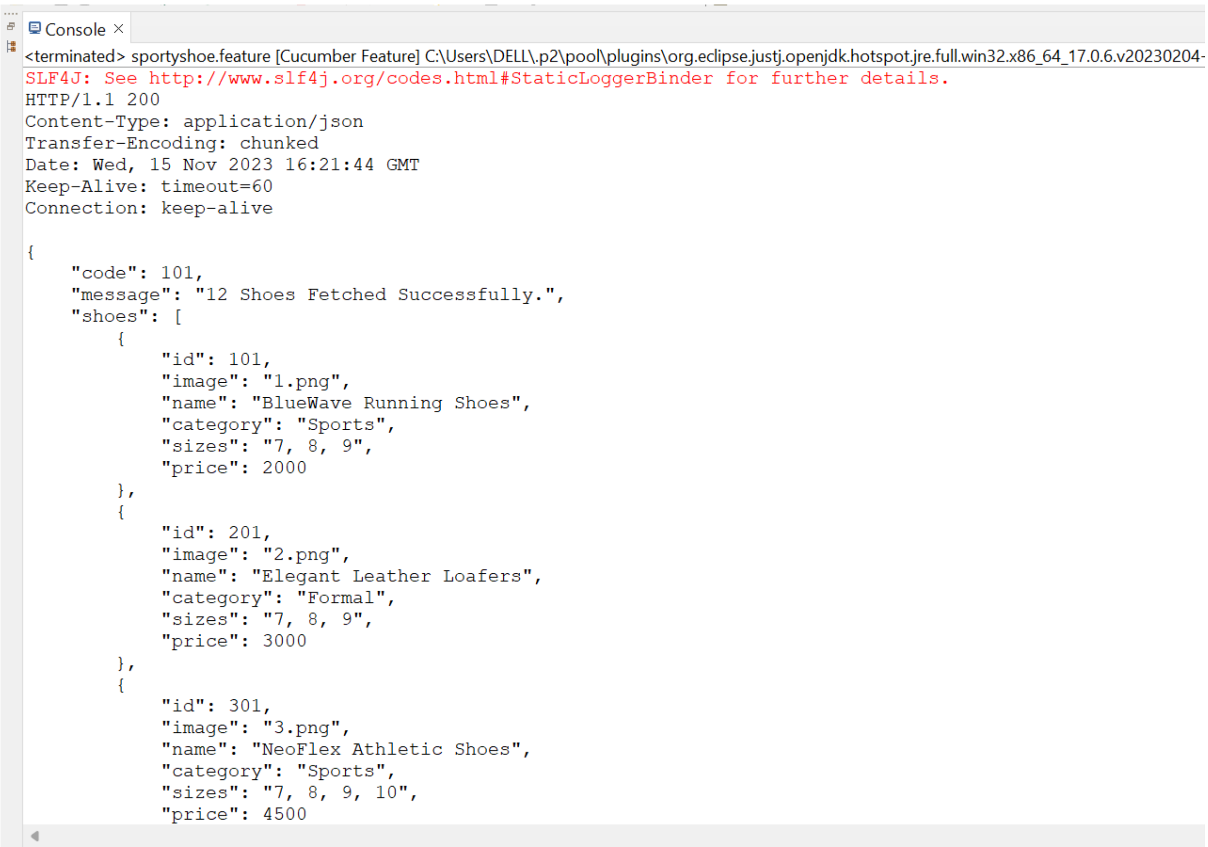


```java
package steps;

import io.cucumber.java.en.Given;

import io.restassured.RestAssured;

public class SportyShoe_steps {


@Given("User send a get request to get all the shoes")
public void user_send_a_get_request_to_get_all_the_shoes() {
    RestAssured.given()
    .baseUri("http://localhost:9010")
    .basePath("/get-shoes")
    .when()
    .get()
    .then()
    .statusCode(200)
    .log().all();
}

@Given("User sends a Get request to get all the users")
public void user_sends_a_get_request_to_get_all_the_users() {
    RestAssured.given()
    .baseUri("http://localhost:9010")
    .basePath("/get-users")
    //.basePath("/get-user/John Watson")
    .when()
    .get()
    .then()
    .statusCode(200)
    .log().all();
}

@Given("User sends a post request to add a new product")
public void user_sends_a_post_request_to_add_a_new_product() {
```

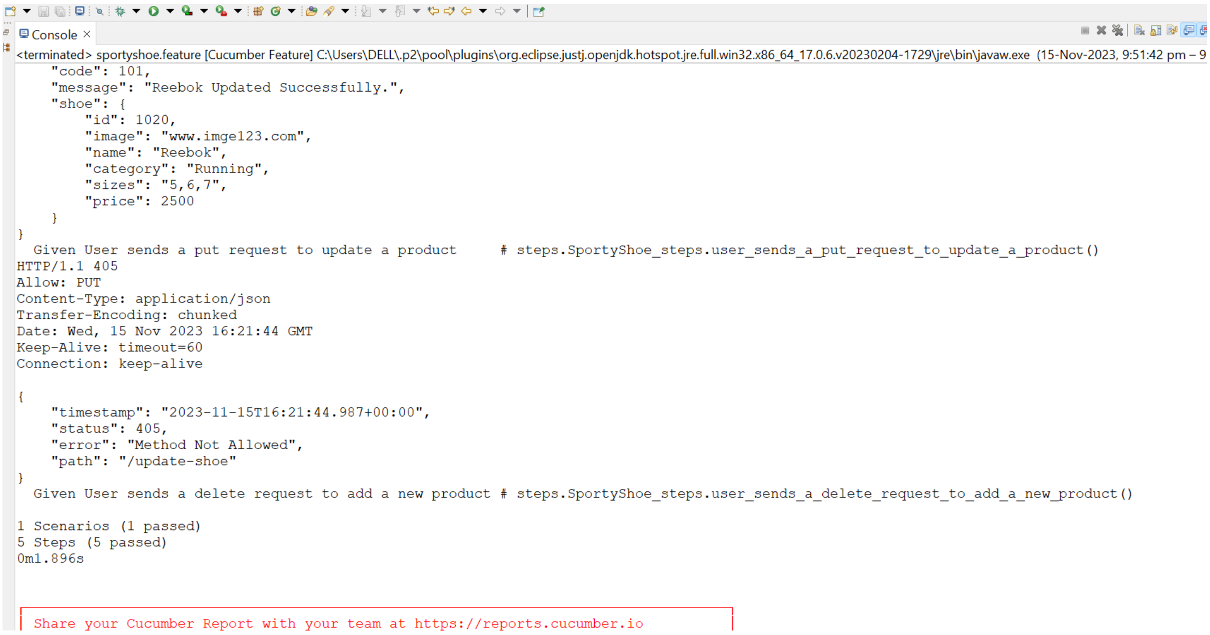


```java
@Given("User sends a post request to add a new product")
public void user_sends_a_post_request_to_add_a_new_product() {
    RestAssured.given()
    .baseUri("http://localhost:9010")
    .basePath("/add-shoe")
    .queryParam("id","1020")
    .queryParam("image", "www.imge.com")
    .queryParam("name","Nike")
    .queryParam("category", "Running")
    .queryParam("sizes","5,6,7")
    .queryParam("price", "2000")
    .when()
    .post()
    .then()
    .log().all();

}

@Given("User sends a put request to update a product")
public void user_sends_a_put_request_to_update_a_product() {
    RestAssured.given()
    .baseUri("http://localhost:9010")
    .basePath("/update-shoe")
    .queryParam("id","1020")
    .queryParam("image", "www.imge123.com")
    .queryParam("name","Reebok")
    .queryParam("category", "Running")
    .queryParam("sizes","5,6,7")
    .queryParam("price", "2500")
    .when()
    .put()
    .then()
    .log().all();
}

@Given("User sends a delete request to add a new product")
public void user_sends_a_delete_request_to_add_a_new_product() {
```

Output:



```
<terminated> sportyshoe.feature [Cucumber Feature] C:\Users\DELL\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
HTTP/1.1 200
Content-Type: application/json
Transfer-Encoding: chunked
Date: Wed, 15 Nov 2023 16:21:44 GMT
Keep-Alive: timeout=60
Connection: keep-alive

{
    "code": 101,
    "message": "12 Shoes Fetched Successfully.",
    "shoes": [
        {
            "id": 101,
            "image": "1.png",
            "name": "BlueWave Running Shoes",
            "category": "Sports",
            "sizes": "7, 8, 9",
            "price": 2000
        },
        {
            "id": 201,
            "image": "2.png",
            "name": "Elegant Leather Loafers",
            "category": "Formal",
            "sizes": "7, 8, 9",
            "price": 3000
        },
        {
            "id": 301,
            "image": "3.png",
            "name": "NeoFlex Athletic Shoes",
            "category": "Sports",
            "sizes": "7, 8, 9, 10",
            "price": 4500
```



```
<terminated> sportyshoe.feature [Cucumber Feature] C:\Users\DELL\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe  (15-Nov-2023, 9:51:42 pm – 9
    "code": 101,
    "message": "Reebok Updated Successfully.",
    "shoe": {
        "id": 1020,
        "image": "www.imge123.com",
        "name": "Reebok",
        "category": "Running",
        "sizes": "5,6,7",
        "price": 2500
    }
}
  Given User sends a put request to update a product     # steps.SportyShoe_steps.user_sends_a_put_request_to_update_a_product()
HTTP/1.1 405
Allow: PUT
Content-Type: application/json
Transfer-Encoding: chunked
Date: Wed, 15 Nov 2023 16:21:44 GMT
Keep-Alive: timeout=60
Connection: keep-alive

{
    "timestamp": "2023-11-15T16:21:44.987+00:00",
    "status": 405,
    "error": "Method Not Allowed",
    "path": "/update-shoe"
}
  Given User sends a delete request to add a new product # steps.SportyShoe_steps.user_sends_a_delete_request_to_add_a_new_product()

1 Scenarios (1 passed)
5 Steps (5 passed)
0m1.896s


 Share your Cucumber Report with your team at https://reports.cucumber.io
```

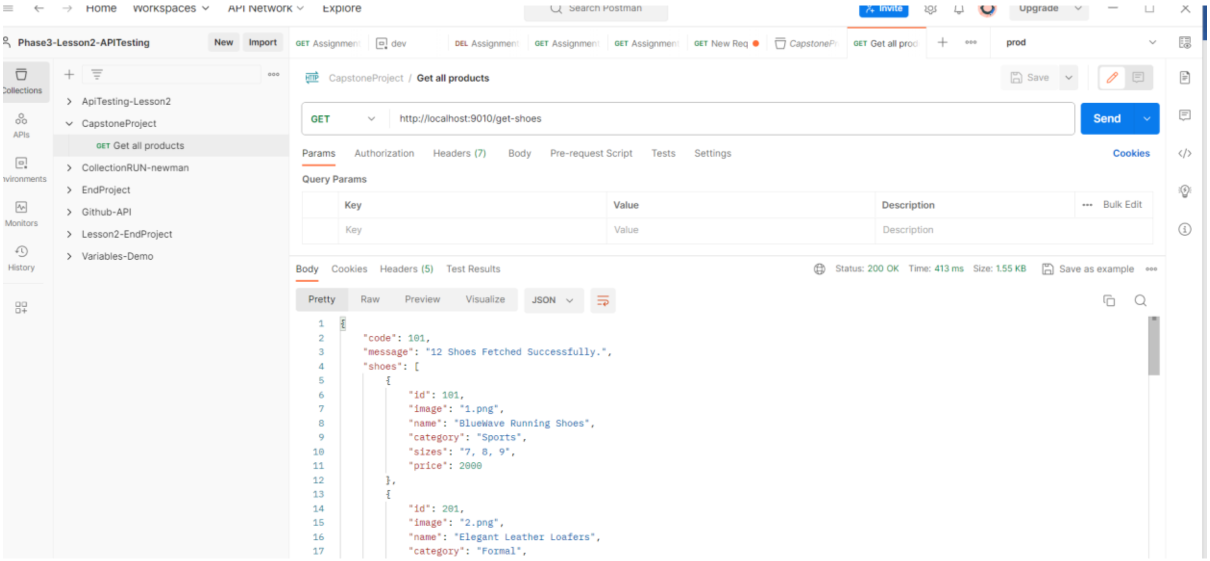
Postman:

Steps:

Add a collection and add a Get request.

Enter url.

Click on save and send.



CapstoneProject / Get all products

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

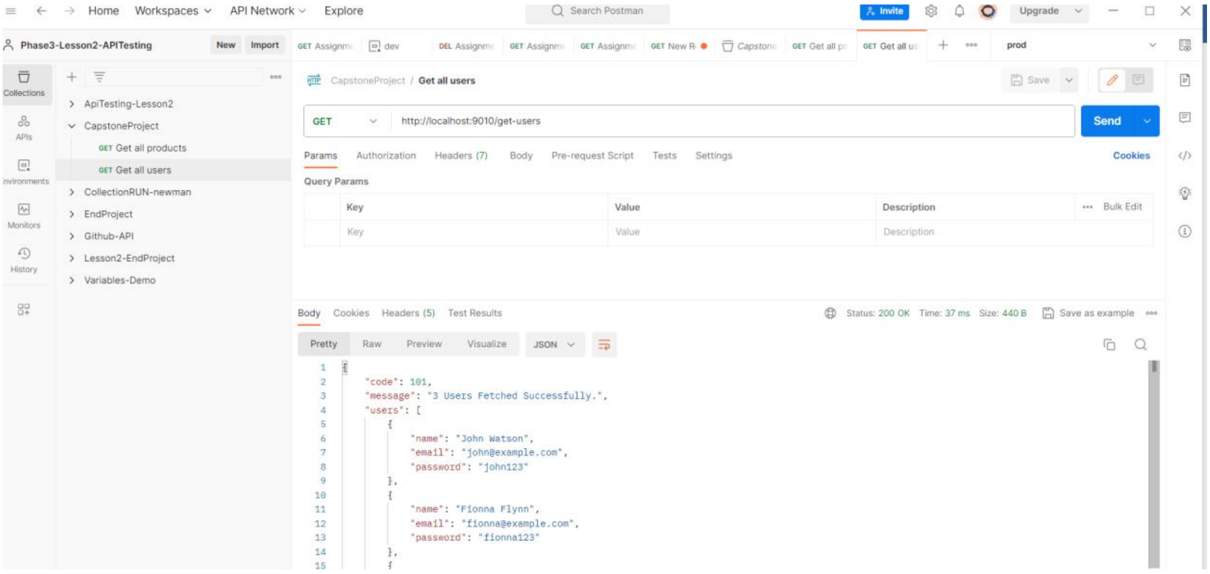
Status: 200 OK Time: 413 ms Size: 1.55 KB

```
{
    "code": 101,
    "message": "12 Shoes Fetched Successfully.",
    "shoes": [
        {
            "id": 101,
            "image": "1.png",
            "name": "BlueWave Running Shoes",
            "category": "Sports",
            "sizes": "7, 8, 9",
            "price": 2000
        },
        {
            "id": 201,
            "image": "2.png",
            "name": "Elegant Leather Loafers",
            "category": "Formal",
```

Add a get request for users

Enter url

Click on save and send



CapstoneProject / Get all users

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

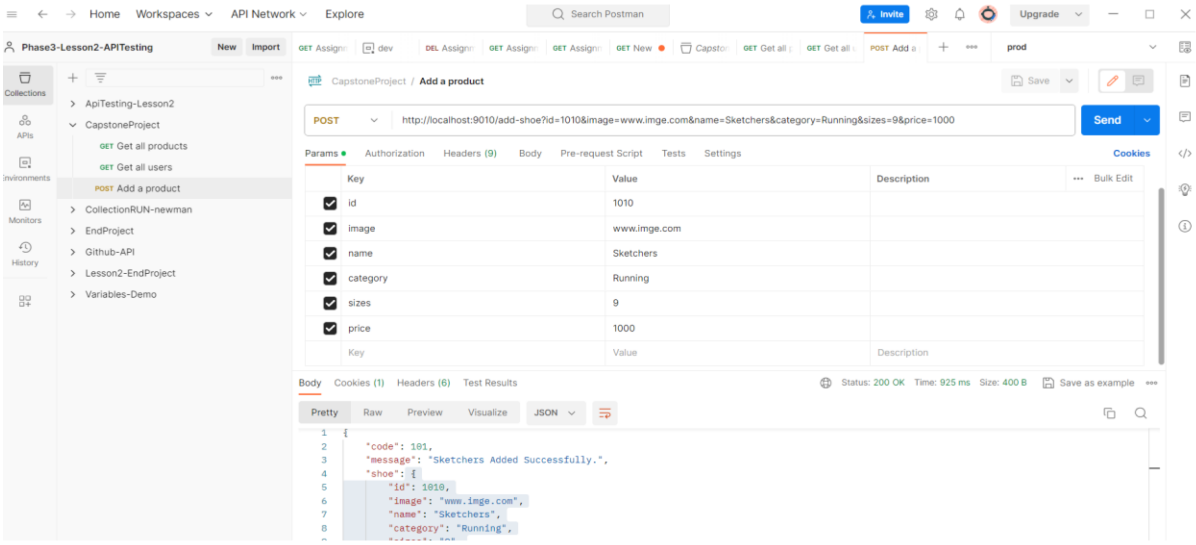
Status: 200 OK Time: 37 ms Size: 440 B

```
{
    "code": 101,
    "message": "3 Users Fetched Successfully.",
    "users": [
        {
            "name": "John Watson",
            "email": "john@example.com",
            "password": "john123"
        },
        {
            "name": "Fionna Flynn",
            "email": "fionna@example.com",
            "password": "fionna123"
        },
        {
```

Add post request.

Enter url

Click on save and send .



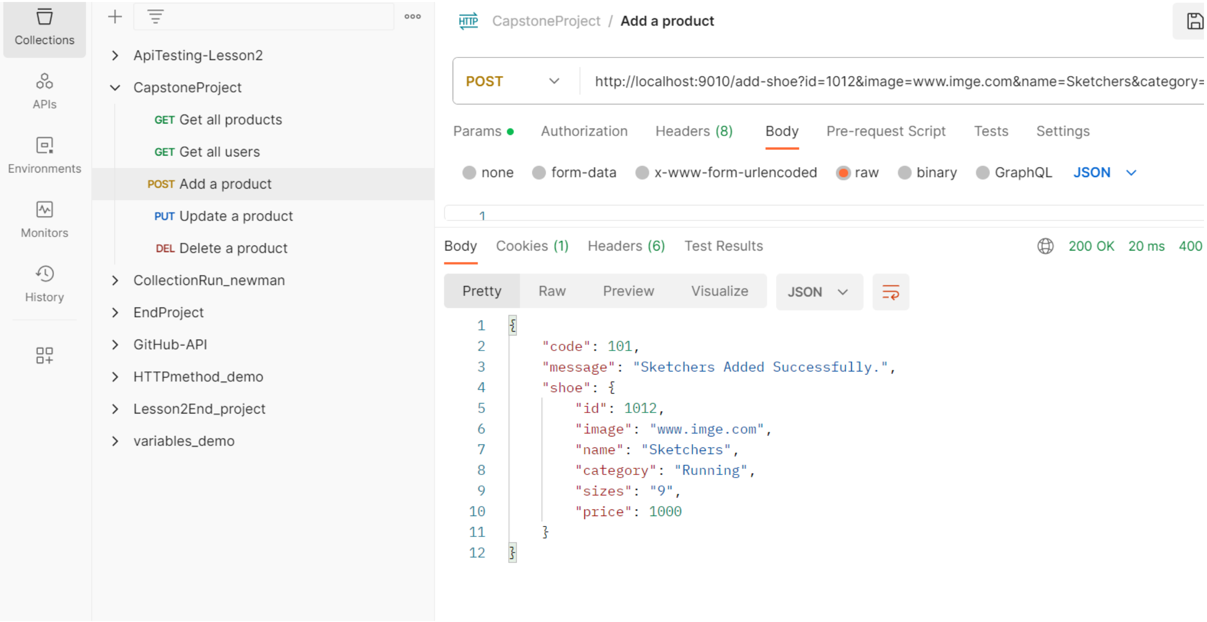
POST http://localhost:9010/add-shoe?id=1010&image=www.imge.com&name=Sketchers&category=Running&sizes=9&price=1000

	Key	Value	Description
☑	id	1010	
☑	image	www.imge.com	
☑	name	Sketchers	
☑	category	Running	
☑	sizes	9	
☑	price	1000	
	Key	Value	Description

Status: 200 OK Time: 925 ms Size: 400 B

```
{
    "code": 101,
    "message": "Sketchers Added Successfully.",
    "shoe": {
        "id": 1010,
        "image": "www.imge.com",
        "name": "Sketchers",
        "category": "Running",
```

Click on save and send .



POST http://localhost:9010/add-shoe?id=1012&image=www.imge.com&name=Sketchers&category=

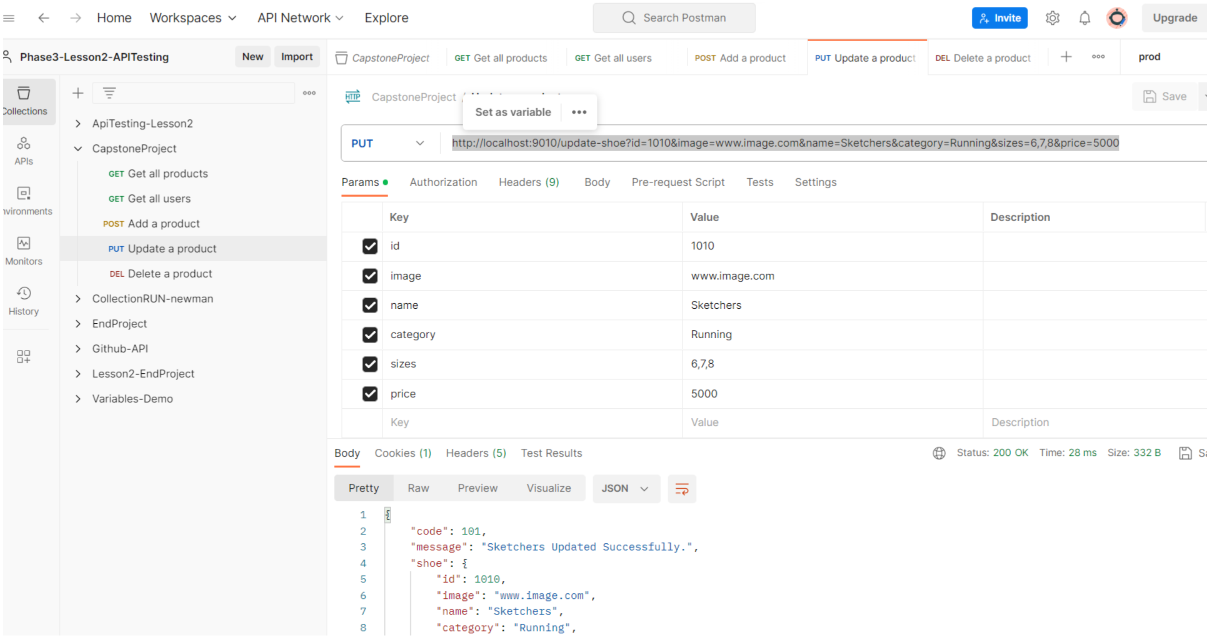
○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

200 OK 20 ms 400

```
{
    "code": 101,
    "message": "Sketchers Added Successfully.",
    "shoe": {
        "id": 1012,
        "image": "www.imge.com",
        "name": "Sketchers",
        "category": "Running",
        "sizes": "9",
        "price": 1000
    }
}
```

Add put request

Add params.



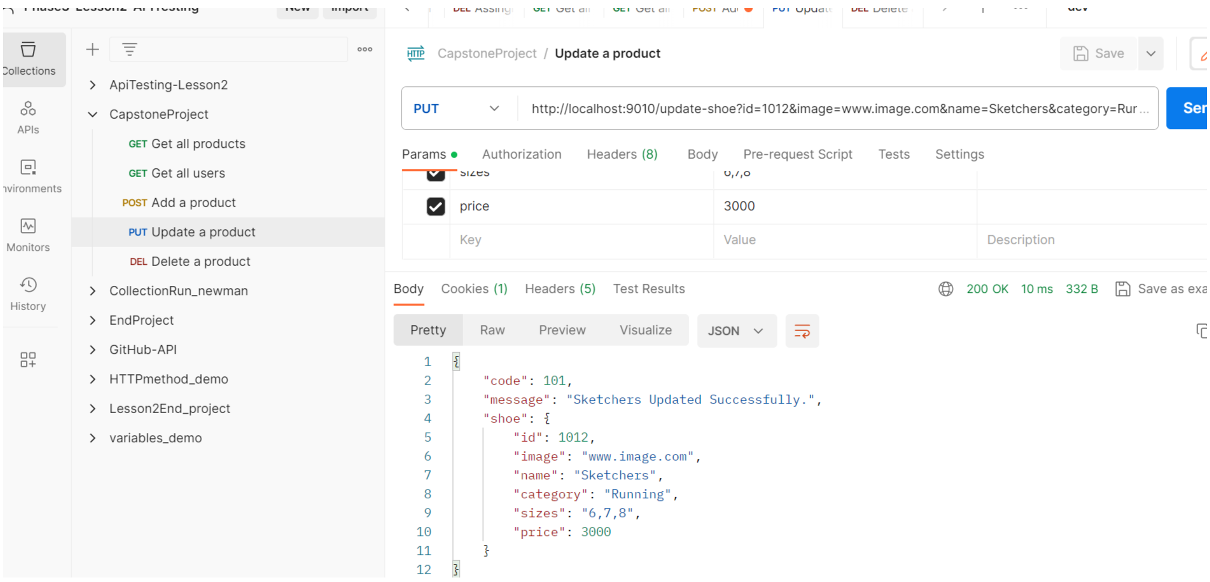
PUT http://localhost:9010/update-shoe?id=1010&image=www.image.com&name=Sketchers&category=Running&sizes=6,7,8&price=5000

	Key	Value	Description
☑	id	1010	
☑	image	www.image.com	
☑	name	Sketchers	
☑	category	Running	
☑	sizes	6,7,8	
☑	price	5000	
	Key	Value	Description

Status: 200 OK Time: 28 ms Size: 332 B

```
{
    "code": 101,
    "message": "Sketchers Updated Successfully.",
    "shoe": {
        "id": 1010,
        "image": "www.image.com",
        "name": "Sketchers",
        "category": "Running",
```

Save and send



PUT http://localhost:9010/update-shoe?id=1012&image=www.image.com&name=Sketchers&category=Rur...

	Key	Value	Description
☑	sizes	6,7,8	
☑	price	3000	
	Key	Value	Description

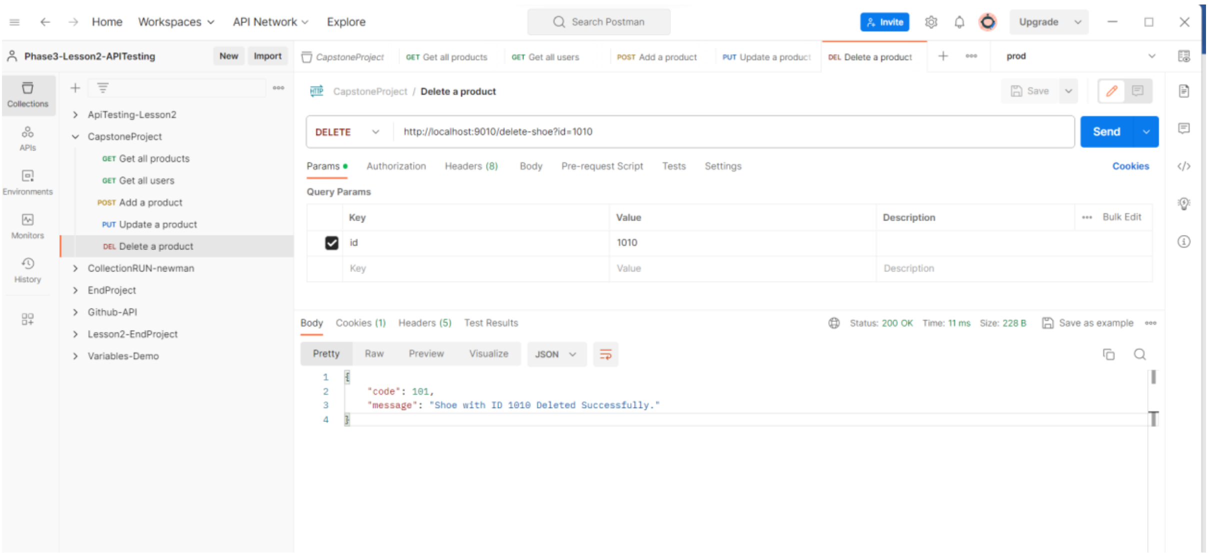
200 OK 10 ms 332 B

```
{
    "code": 101,
    "message": "Sketchers Updated Successfully.",
    "shoe": {
        "id": 1012,
        "image": "www.image.com",
        "name": "Sketchers",
        "category": "Running",
        "sizes": "6,7,8",
        "price": 3000
    }
}
```

Add delete request

Enter url

Save and send.



DELETE http://localhost:9010/delete-shoe?id=1010

Query Params

	Key	Value	Description
☑	id	1010	
	Key	Value	Description

Status: 200 OK Time: 11 ms Size: 228 B

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