

Create a Testing Framework for Sporty Shoes Website

In the project create 3 packages to maintain Base class, Page class and test classes

Step 1

Create the testbase file

```
package com.qa.sportshoes.base;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class TestBase {

    public static WebDriver driver;

    public static void openBrowser()
    {

        driver = new ChromeDriver();

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

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

Step 2

Create the page class

```
package com.qa.sportshoes.Pages;
import org.openqa.selenium.WebDriver;
```

```

import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
import com.qa.sportshoes.base.TestBase;
public class HomePage extends TestBase {

    // driver.findElement(locator).methods

    // @FindBy(locatorname="value")
    // WebElement name;

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

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

    // action methods

    public void getURL_page()
    {
        String URL = driver.getCurrentUrl();
        System.out.println(URL);
    }

    public void Click_registerlink()
    {
        registerlink.click();
    }
}

```

Step 3

Create the hompagetest file

```

package com.qa.sportyshoes.Tests;
import org.testng.Assert;
import org.testng.annotations.Test;

import com.qa.sportshoes.Pages.HomePage;
import com.qa.sportshoes.base.TestBase;
public class HomePageTest extends TestBase {

    HomePage hp;

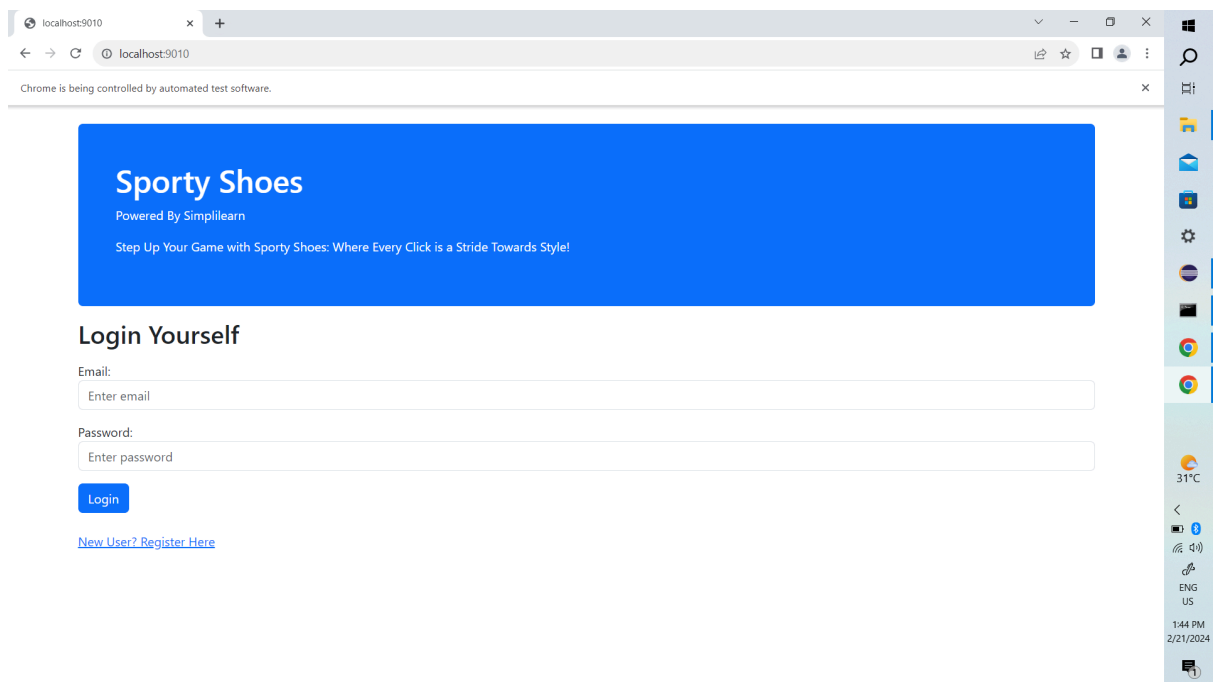
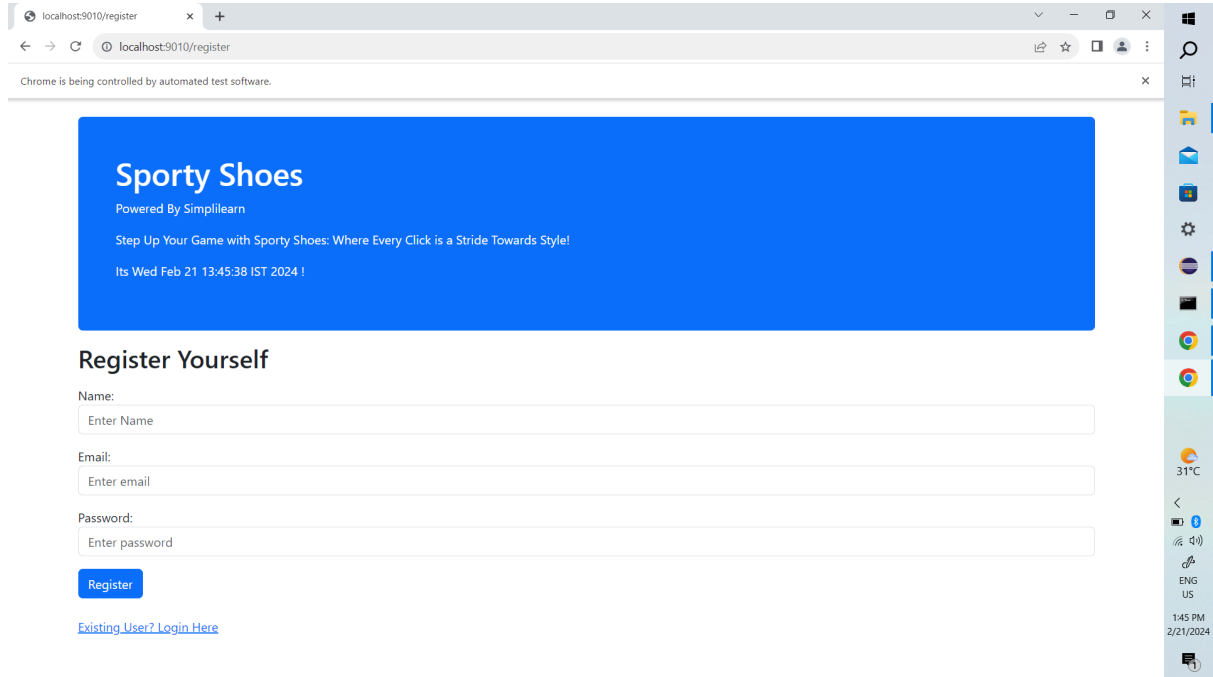
    @Test(priority='1')
    public void start_browser()
    {
        openBrowser();
        hp = new HomePage(driver);
    }

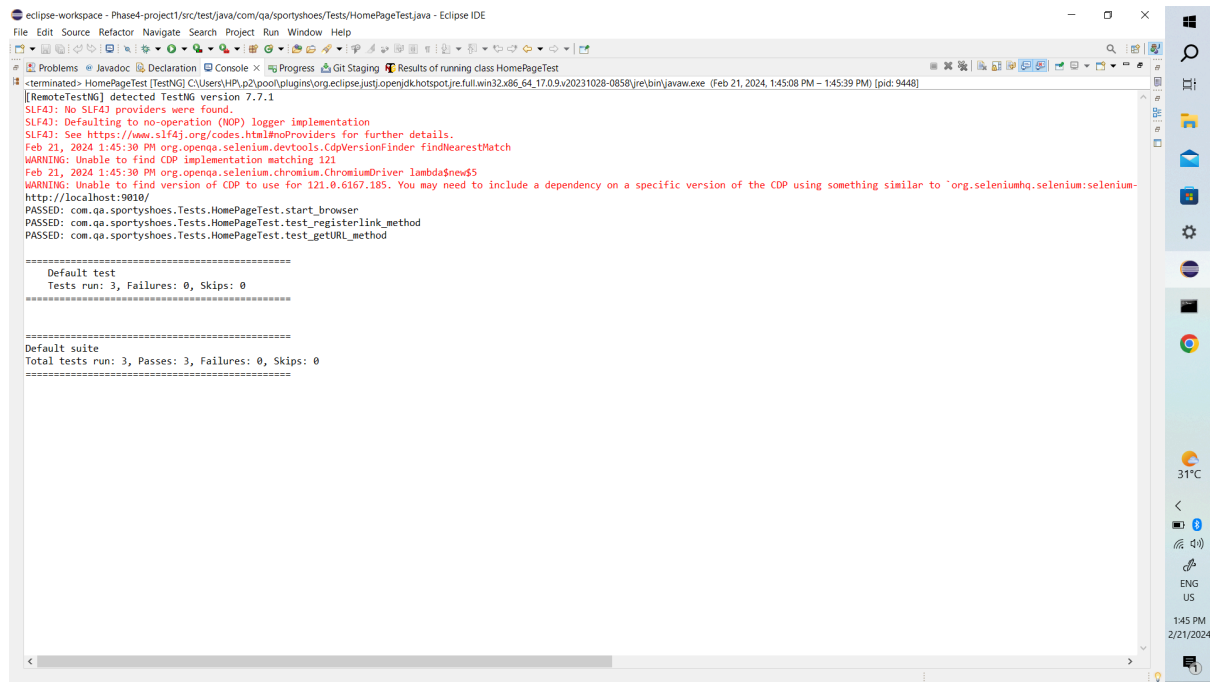
    @Test(priority='2')
    public void test_getURL_method()
    {
        hp.getURL_page();
    }

    @Test(priority='2')
    public void test_registerlink_method()
    {
        hp.Click_registerlink();
        String expectedURL =
"http://localhost:9010/register";
        String RegisterPageURL =
driver.getCurrentUrl();
        Assert.assertEquals(RegisterPageURL,
expectedURL);
    }
}

```

Screenshots





RegisterPage Classes:

package com.qa.sportshoes.Pages;

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
import org.testng.Assert;
import com.qa.sportshoes.base.TestBase;
public class RegisterPage extends TestBase {
```

```
    @FindBy(xpath="//*[@id='name']")
    WebElement registerName;
```

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

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

```
    @FindBy(xpath="//*[@type='submit']")
```

```

WebElement registerBtn;

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

public void register_user()
{
    registerName.sendKeys("Arya");
    registerEmail.sendKeys("arya@gmail.com");
    registerPassword.sendKeys("arya@123");
    registerBtn.click();
}

public void validate_url()
{
    String expectedURL = "http://localhost:9010/register-user";
    String RegisterPageURL = driver.getCurrentUrl();
    Assert.assertEquals(RegisterPageURL, expectedURL);
}
}

```

Registerpage test file

```

package com.qa.sportyshoes.Tests;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

import com.qa.sportshoes.Pages.HomePage;
import com.qa.sportshoes.Pages.RegisterPage;
import com.qa.sportshoes.base.TestBase;

public class RegisterPageTest extends TestBase{

```

```
HomePage hp;  
RegisterPage rp;
```

```
@BeforeClass  
public void OpenBrowser()  
{  
    openBrowser();  
  
    hp = new HomePage(driver);  
    rp = new RegisterPage(driver);  
  
}
```

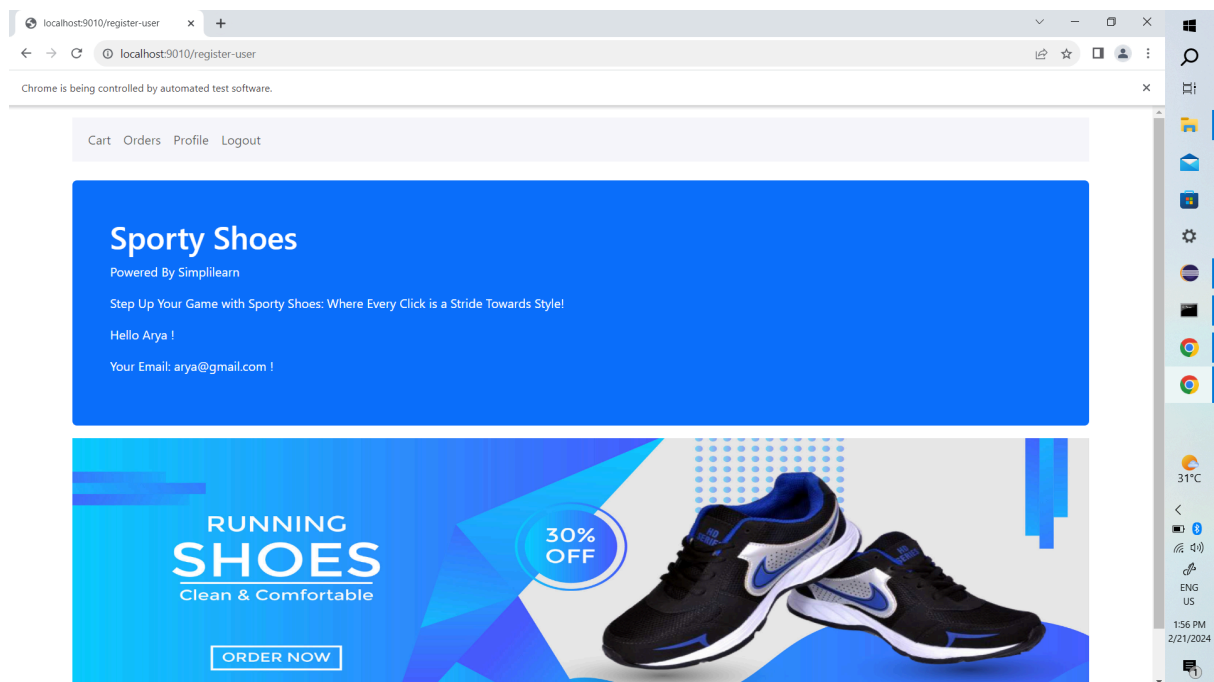
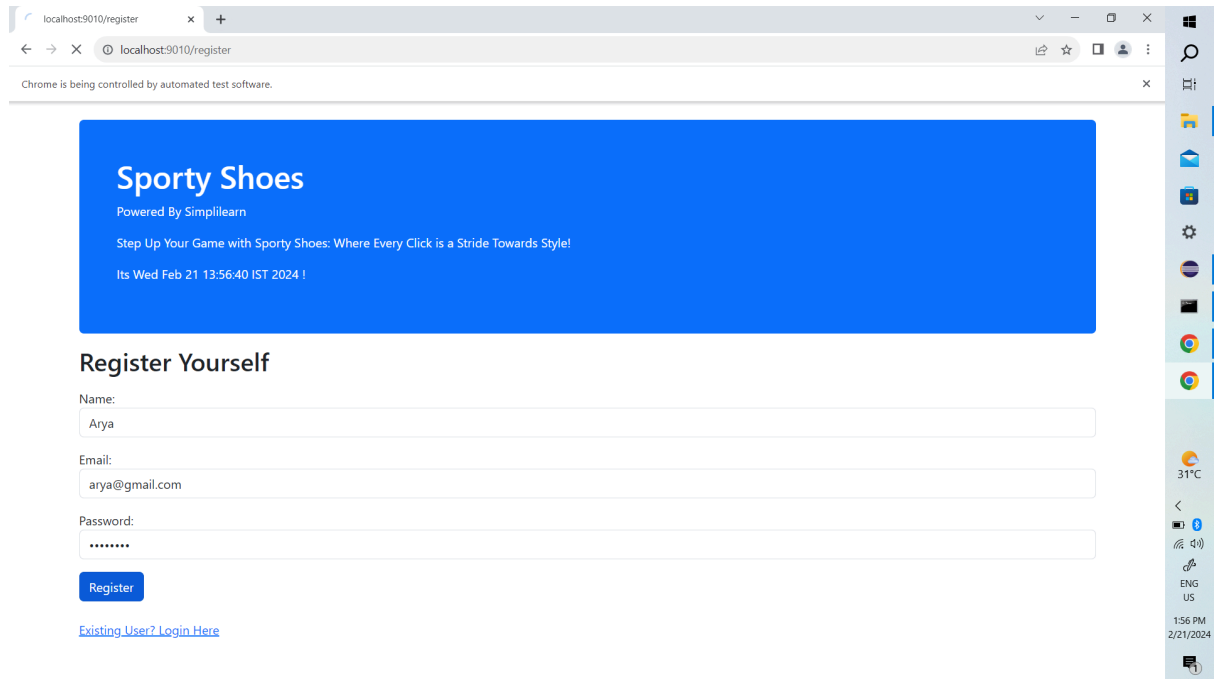
```
@Test(priority='1')  
public void test_click_registerLink() throws InterruptedException  
{  
    Thread.sleep(1500);  
    hp.Click_registerlink();  
}
```

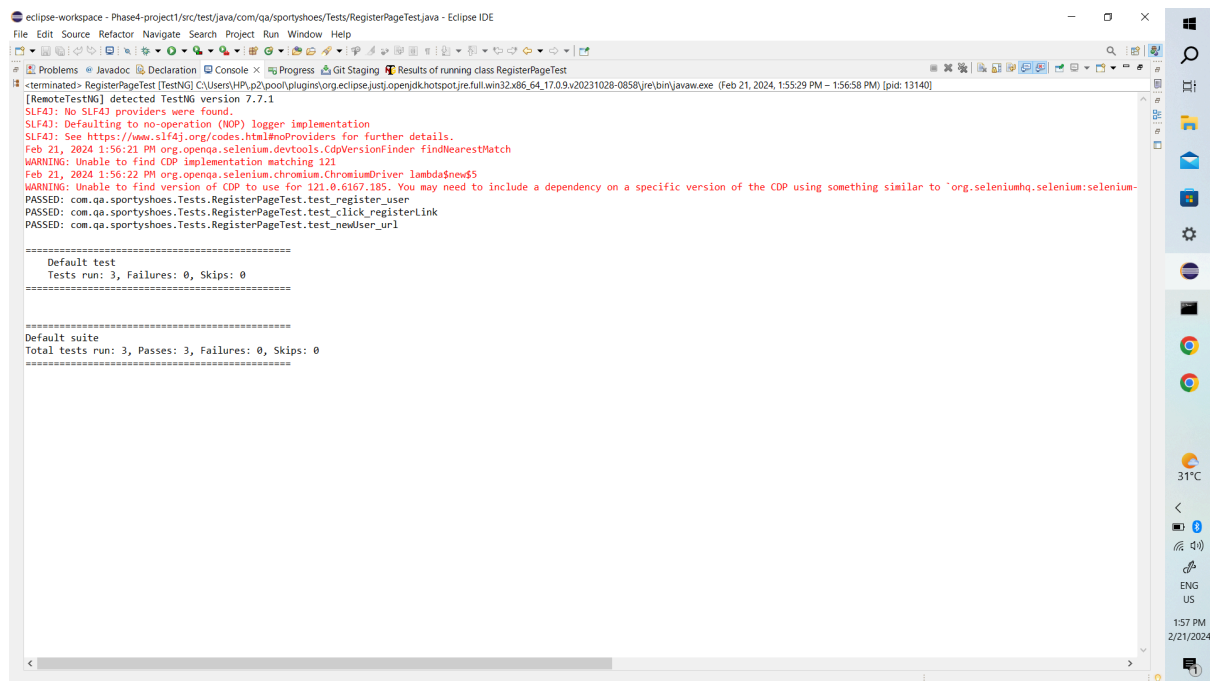
```
@Test(priority='2')  
public void test_register_user()  
{  
    rp.register_user();  
}
```

```
@Test(priority='3')  
public void test_newUser_url()  
{  
    rp.validate_url();  
}
```

```
}
```

Screenshots





LoginPage:

```
package com.qa.sportshoes.Pages;
```

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
import org.testng.Assert;
import com.qa.sportshoes.base.TestBase;
public class LoginPage extends TestBase {
```

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

```
    @FindBy(xpath="//*[@id='password']")
    WebElement loginPassword;
```

```
    @FindBy(xpath="//*[@type='submit']")
    WebElement loginBtn;
```

```

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

public void user_login()
{
    loginEmail.sendKeys("arya@gmail.com");
    LoginPassword.sendKeys("arya@123");
    LoginBtn.click();
}

public void validate_loginPage_url()
{
    String expectedURL =
"http://localhost:9010/login";
    String RegisterPageURL =
driver.getCurrentUrl();
    Assert.assertEquals(RegisterPageURL,
expectedURL);
}

}

```

Loginpage test file

```

package com.qa.sportyshoes.Tests;
import org.testng.annotations.Test;
import com.qa.sportshoes.Pages.LoginPage;
import com.qa.sportshoes.base.TestBase;

public class LoginPageTest extends TestBase {

    LoginPage lp;

```

```

@Test(priority='1')

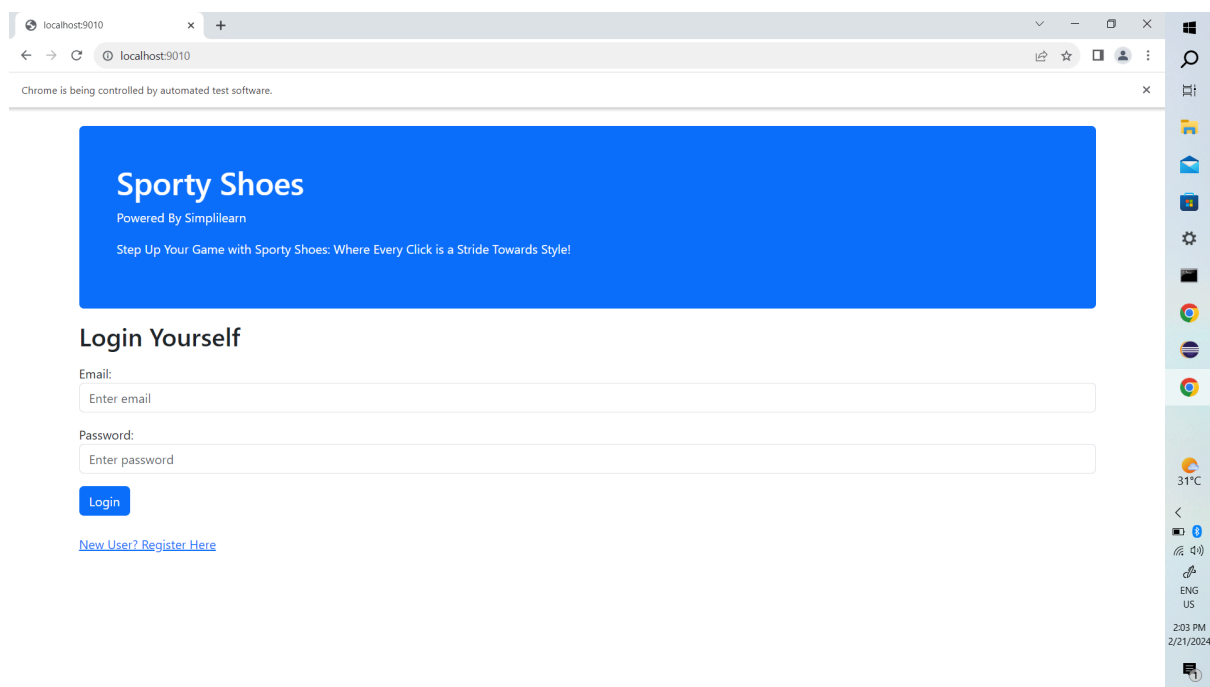
public void start_browser()
{
    openBrowser();
    lp = new LoginPage(driver);
}

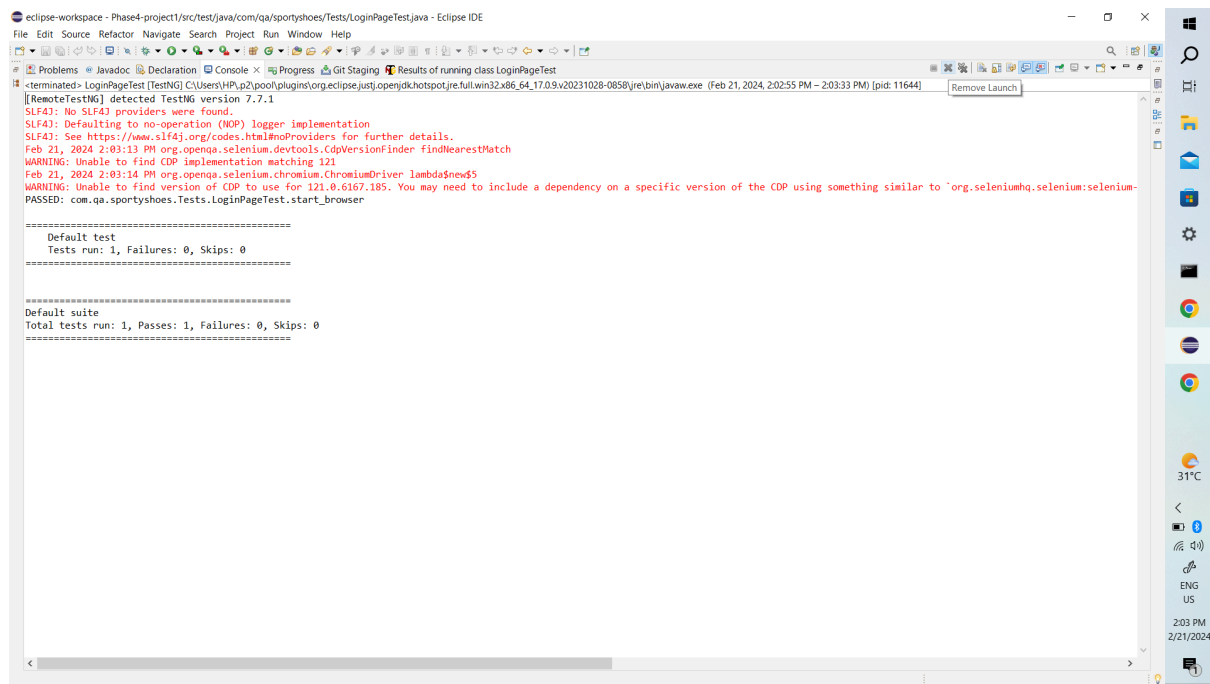
public void test_user_login() throws InterruptedException
{
    Thread.sleep(1000);
    lp.user_login();
}

public void test_validate_loginPage_url()
{
    lp.validate_loginPage_url();
}
}

```

Screenshots





ProductsPage

```
package com.qa.sportshoes.Pages;  
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 ProductsPage {
```

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

```
    @FindBy(linkText="Home")  
    WebElement HomeBTN;
```

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

```
    @FindBy(xpath="//*[@id='place-order']")  
    WebElement placeOrderBTN;
```

```
    @FindBy(linkText="Orders")
```

WebElement OrdersBTN;

@FindBy(linkText="Logout")

WebElement logoutBTN;

JavascriptExecutor executor;

```
public ProductsPage(WebDriver driver)
{
    PageFactory.initElements(driver, this);
    executor = (JavascriptExecutor) driver;
}
```

```
public void click_addtoCart()
{
    executor.executeScript("arguments[0].click();", addtocartBTN);
}
```

```
public void click_homebtn()
{
    HomeBTN.click();
}
```

```
public void click_cartbtn()
{
    CartBTN.click();
}
```

```
public void click_placeorder()
{
    executor.executeScript("arguments[0].click();", placeOrderBTN);
}
```

```
public void click_Ordersbtn()
{
    OrdersBTN.click();
}
```

```

        public void click_Logoutbtn()
        {
            logoutBTN.click();
        }

    }
}

```

ProductsTest

```
package com.qa.sportyshoes.Tests;
```

```

import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;
import com.qa.sportshoes.Pages.LoginPage;
import com.qa.sportshoes.Pages.ProductsPage;
import com.qa.sportshoes.base.TestBase;
public class ProductsTest extends TestBase {

```

```

    LoginPage lp;
    ProductsPage pp;

```

```

        @BeforeClass
        public void start_browser()
        {
            openBrowser();
            lp = new LoginPage(driver);
            pp = new ProductsPage(driver);
        }
        @Test(priority='1')
        public void test_user_login() throws InterruptedException
        {
            Thread.sleep(1000);
            lp.user_login();
        }
        @Test(priority='2')
        public void test_product_addtoCart() throws InterruptedException
        {

```

```

        Thread.sleep(1000);
        pp.click_addtoCart();

    }

    @Test(priority='3')
    public void test_HomeBTN() throws InterruptedException
    {
        Thread.sleep(1000);
        pp.click_homebtn();
    }

    @Test(priority='4')
    public void test_CartBTN() throws InterruptedException
    {
        Thread.sleep(1000);
        pp.click_cartbtn();
    }

    @Test(priority='5')
    public void test_placeorderBTN() throws InterruptedException
    {
        Thread.sleep(1000);
        pp.click_placeorder();
    }

    @Test(priority='6')
    public void test_orders() throws InterruptedException
    {
        Thread.sleep(1000);
        pp.click_homebtn();
        pp.click_Ordersbtn();
    }

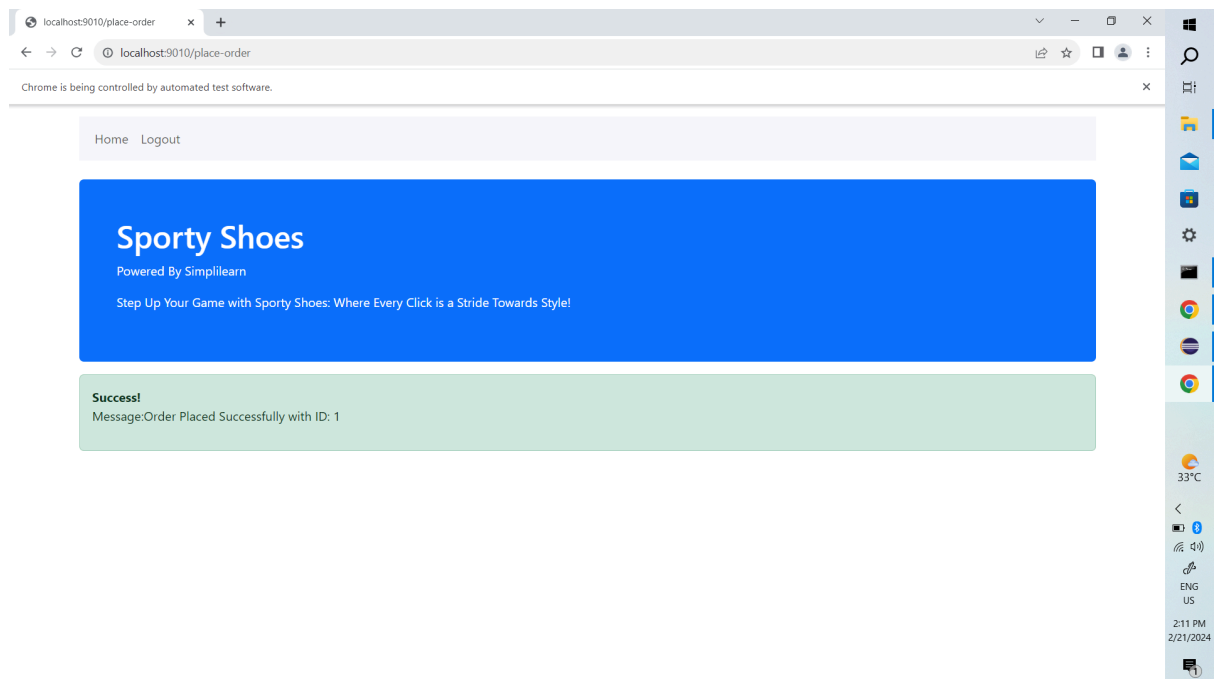
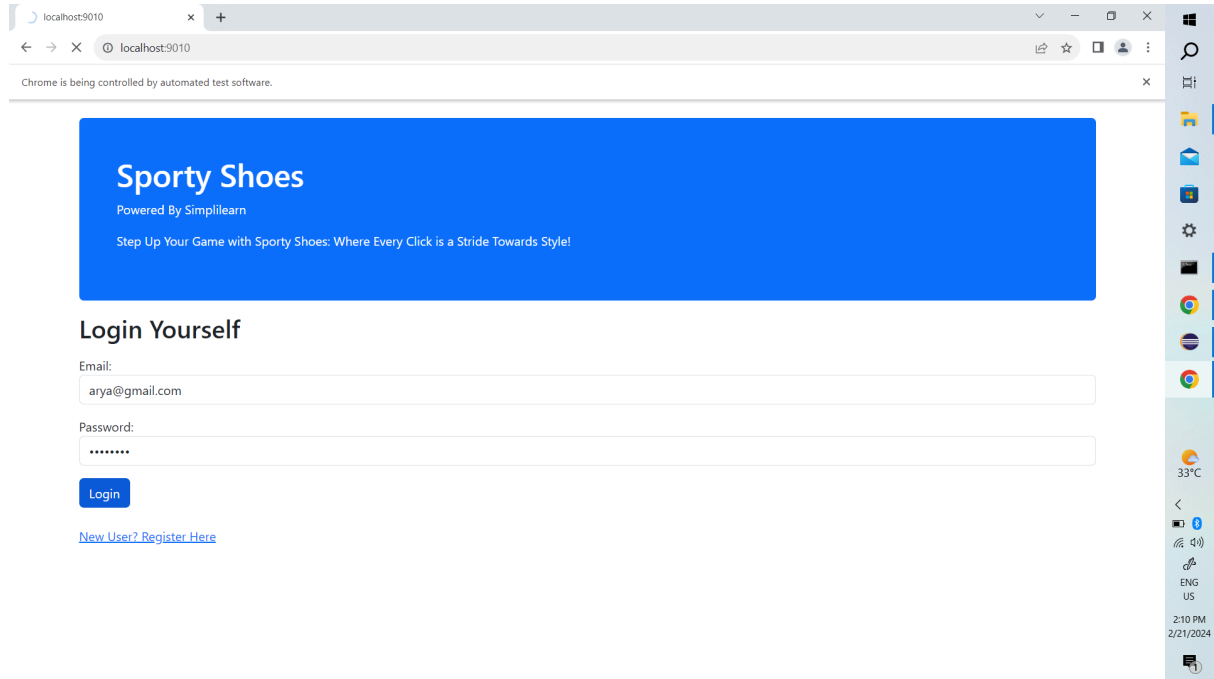
    @Test(priority='7')
    public void test_logout() throws InterruptedException
    {
        Thread.sleep(1000);
        pp.click_Logoutbtn();
    }

```

}

}

Screenshots



localhost:9010/orders

localhost:9010/orders

Chrome is being controlled by automated test software.

HomeOrdersLogout


Sporty Shoes

Powered By Simplilearn

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

Hello Arya !

Total Orders: 1



2000

Order Id: 1

Placed On Wed Feb 21 14:11:16 IST 2024

localhost:9010/logout

localhost:9010/logout

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:

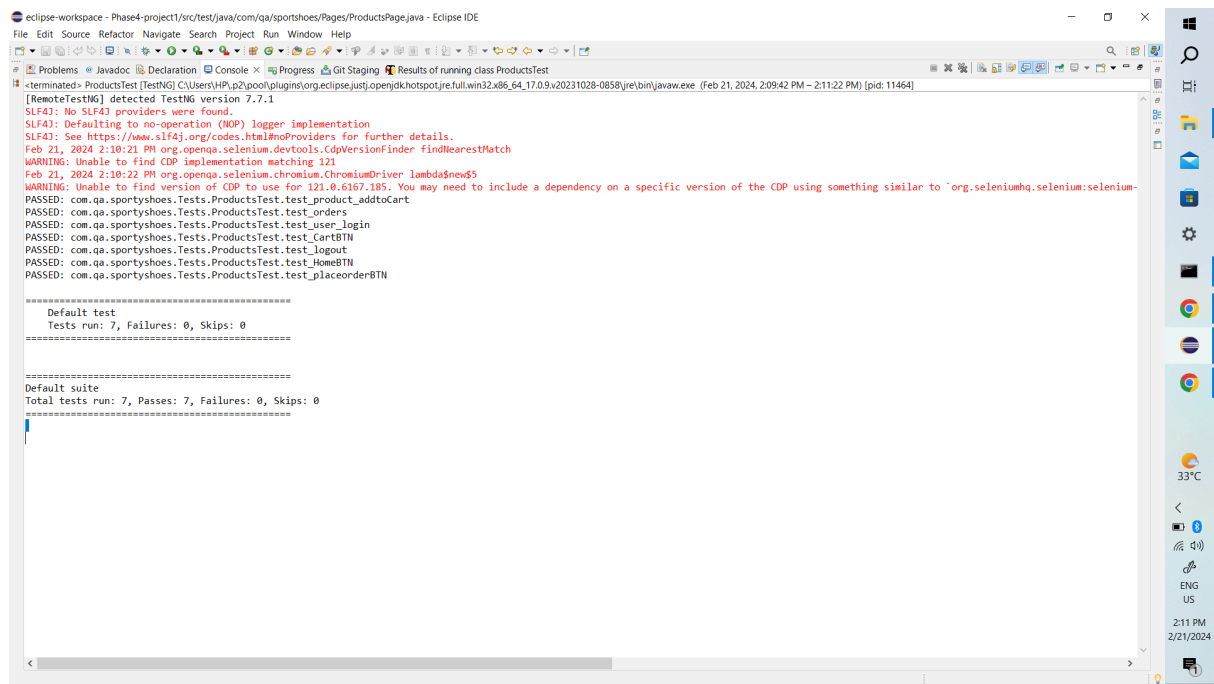
Enter email

Password:

Enter password

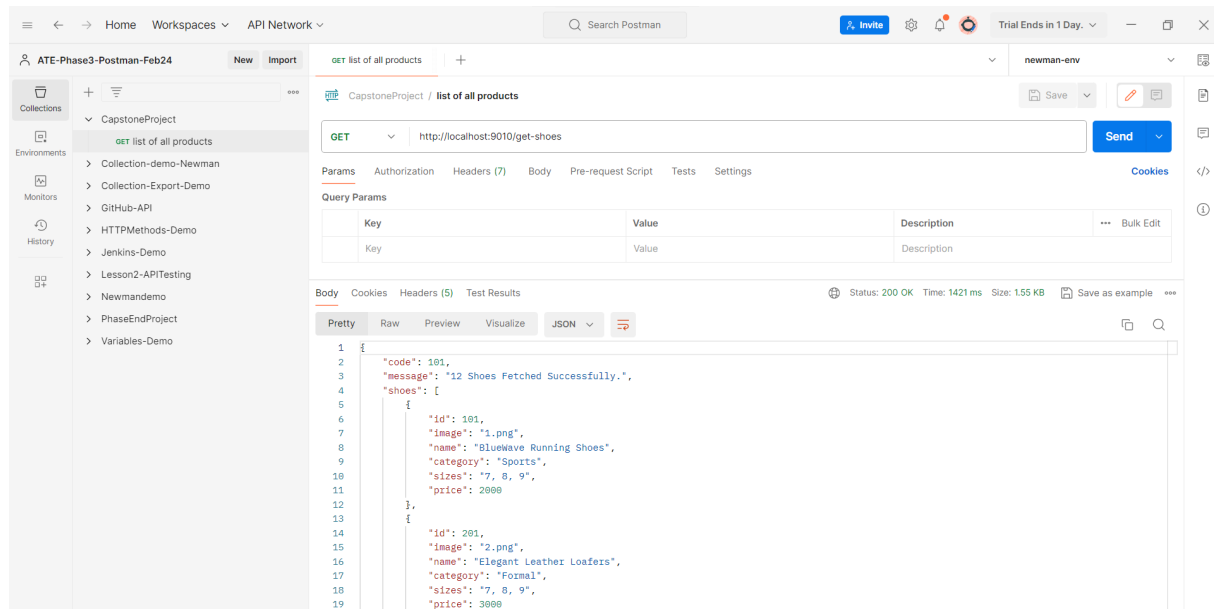
Login

[New User? Register Here](#)



Apitesting - Postman:

1. Get request



2. Get request - get users

Postman interface showing a GET request to `http://localhost:9010/get-users`. The request is part of a collection named `CapstoneProject`. The response status is 200 OK, with a time of 35 ms and a size of 440 B. The response body is a JSON object:

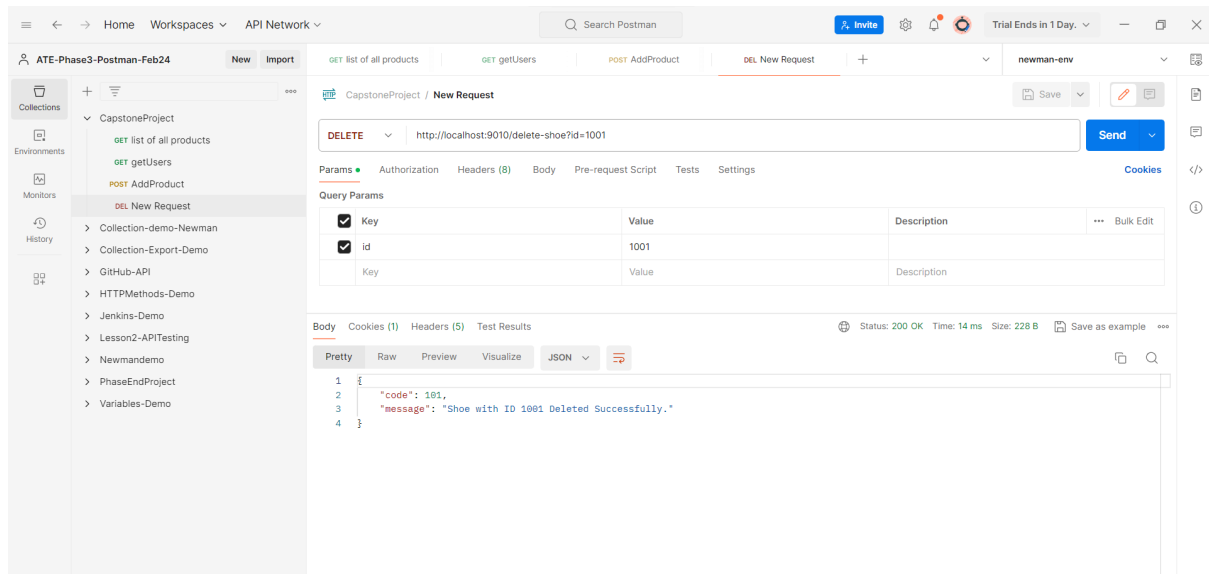
```
{
  "code": 101,
  "message": "3 Users Fetched Successfully.",
  "users": [
    {
      "name": "John Watson",
      "email": "john@example.com",
      "password": "john123"
    },
    {
      "name": "Fionna Flynn",
      "email": "fionna@example.com",
      "password": "fionna123"
    },
    {
      "name": "Sia Sen",
      "email": "sia@example.com",
      "password": "sia123"
    }
  ]
}
```

3. Post request - Add a product

Postman interface showing a POST request to `http://localhost:9010/add-shoe?id=1001&image=1.png&name=Sketchers&category=Running&sizes=9&price=5000`. The request is part of a collection named `CapstoneProject`. The response status is 200 OK, with a time of 568 ms and a size of 393 B. The response body is a JSON object:

```
{
  "code": 101,
  "message": "Sketchers Added Successfully.",
  "shoe": {
    "id": 1001,
    "image": "1.png",
    "name": "Sketchers",
    "category": "Running",
    "sizes": "9",
    "price": 5000
  }
}
```

4.Delete request

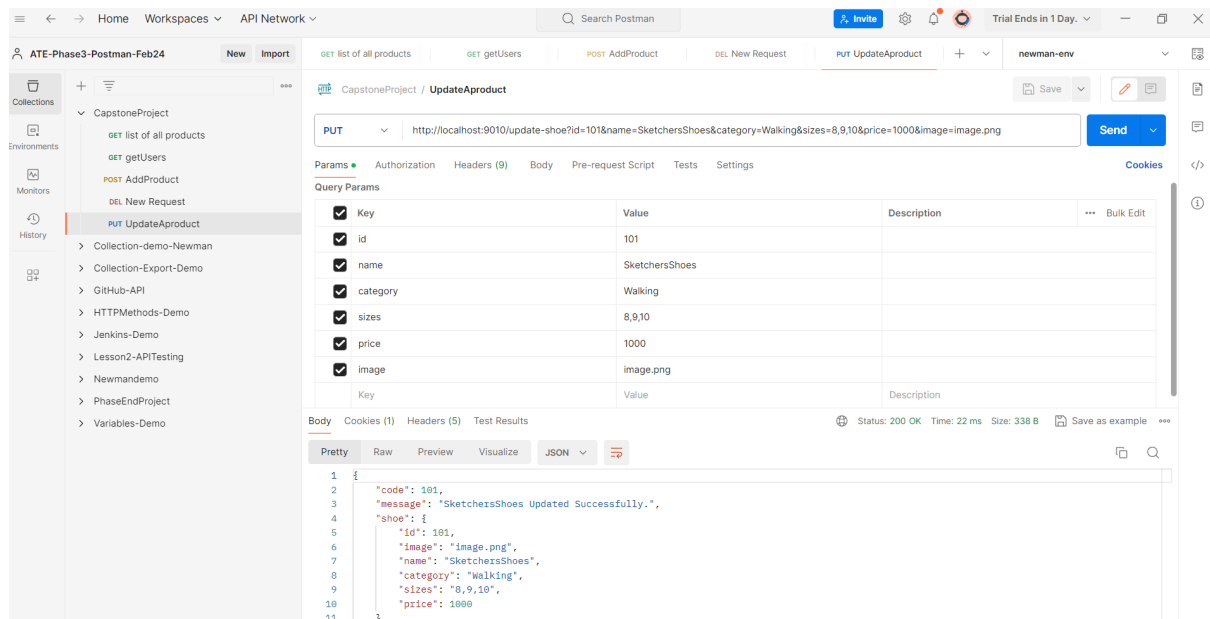


5.Put request

URL: <http://localhost:9010/update-shoe>

```
{  
  
  "id": 101,  
  
  "name": "SketchersShoes",  
  
  "category": "Walking",  
  
  "sizes": "8,9,10",  
  
  "price": 1500,  
  
  "image": "myimage.png"  
}
```

Add above body as query parameters and send the request



RestAssured Demo:

Cucumber project:

Feature file:

Feature: API Testing for sportShoe application

Scenario: Retrieve the list of all products in the store

Given User sends a get request to get product details

Scenario: Retrieve the list of all registered users

Given User sends get request to list user details

Scenario: Add the product

When User gives new product details, add the product

Scenario: Delete the Product

When User gives product id, delete the product

Scenario: Update Existing Product

When User gives product id and update data, update the product

Create the step package & apitesting file

```
package steps;
import org.hamcrest.Matchers;
import io.cucumber.java.en.Given;
import io.cucumber.java.en.When;
import io.restassured.RestAssured;
public class ApiTesting {

    @Given("User sends a get request to get product details")
    public void user_sends_a_get_request_to_get_product_details() {

        RestAssured.given()
            .baseUrl("http://localhost:9010")
            .basePath("/get-shoes")
            .when().get()
            .then().statusCode(200)
            .log().body();
    }

    @Given("User sends get request to list user details")
    public void user_sends_get_request_to_list_user_details() {
        RestAssured.given()
            .baseUrl("http://localhost:9010")
            .basePath("/get-users")
            .when().get()
            .then().statusCode(200)
            .log().body();
    }
}
```

```

@When("User gives new product details, add the
product")
public void
user_gives_new_product_details_add_the_product() {

    RestAssured.given()
        .baseUrl("http://localhost:9010")
        .basePath("/add-shoe")
        .queryParams("id", "1003")
        .queryParams("image", "img.png")
        .queryParams("name", "Addidas")
        .queryParams("category", "Running")
        .queryParams("sizes", "9")
        .queryParams("price", "1000")
        .when().post()
        .then().body("shoe", Matchers.hasEntry("id",
1003));

}

@When("User gives product id, delete the product")
public void
user_gives_product_id_delete_the_product() {

    RestAssured.given()
        .baseUrl("http://localhost:9010")
        .basePath("/delete-shoe")
        .queryParams("id", "1003")
        .when().delete()
        .then().log().all();

}

@When("User gives product id and update data, update
the product")
public void
user_gives_product_id_and_update_data_update_the_pro
duct() {

    RestAssured.given()

```

```

        .baseUrl("http://localhost:9010")
        .basePath("/update-shoe")
        .queryParams("id", "101")
        .queryParams("image", "img2.png")
        .queryParams("name", "Sketchers")
        .queryParams("category", "Walking")
        .queryParams("sizes", "9")
        .queryParams("price", "5000")
        .when().put()
        .then()
        .body("shoe", Matchers.hasEntry("name",
"Sketchers"));

}

}

```

Jmeter demo:

