Capstone-Project: **Create a Testing Framework for Sporty Shoes Website**

==================

Writeups:-

1. Automate the below API endpoints using Rest-Assured

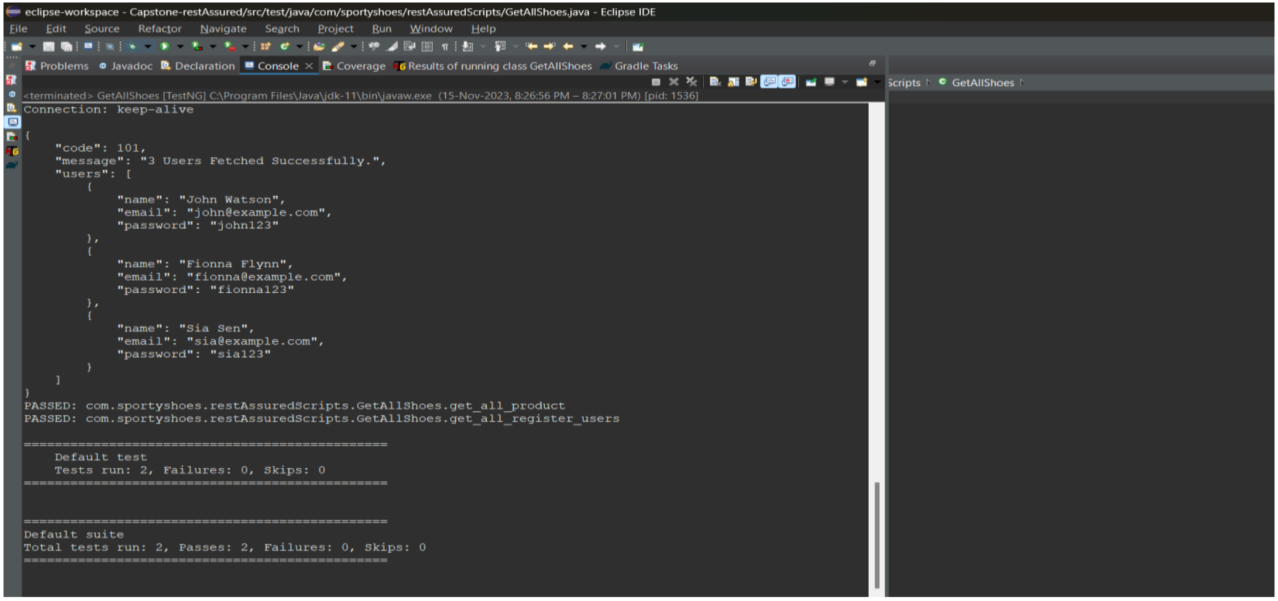
==

- **Here below we are retrieving the list of products in the store using Rest-Assured**:

==

```
package com.sportyshoes.restAssuredScripts;
import org.testng.annotations.Test;
import io.restassured.RestAssured;

public class GetAllShoes {
        @Test(priority = '1')
        public void get_all_product()
        {
                RestAssured.given()
                .baseUri ("http://localhost:9010")
                .basePath("/get-shoes")
                .when()
                .get()
                .then()
                .statusCode(200)
                .log()
                .all();
} }
```

Output response:


eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/restAssuredScripts/GetAllShoes.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems
Javadoc
Declaration
Console
Coverage
Results of running class GetAllShoes
Gradle Tasks
Scripts
GetAllShoes

```
<terminated> GetAllShoes [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe  (15-Nov-2023, 8:26:56 PM – 8:27:01 PM) [pid: 1536]
Connection: keep-alive

{
    "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"
        }
    ]
}
PASSED: com.sportyshoes.restAssuredScripts.GetAllShoes.get_all_product
PASSED: com.sportyshoes.restAssuredScripts.GetAllShoes.get_all_register_users

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


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

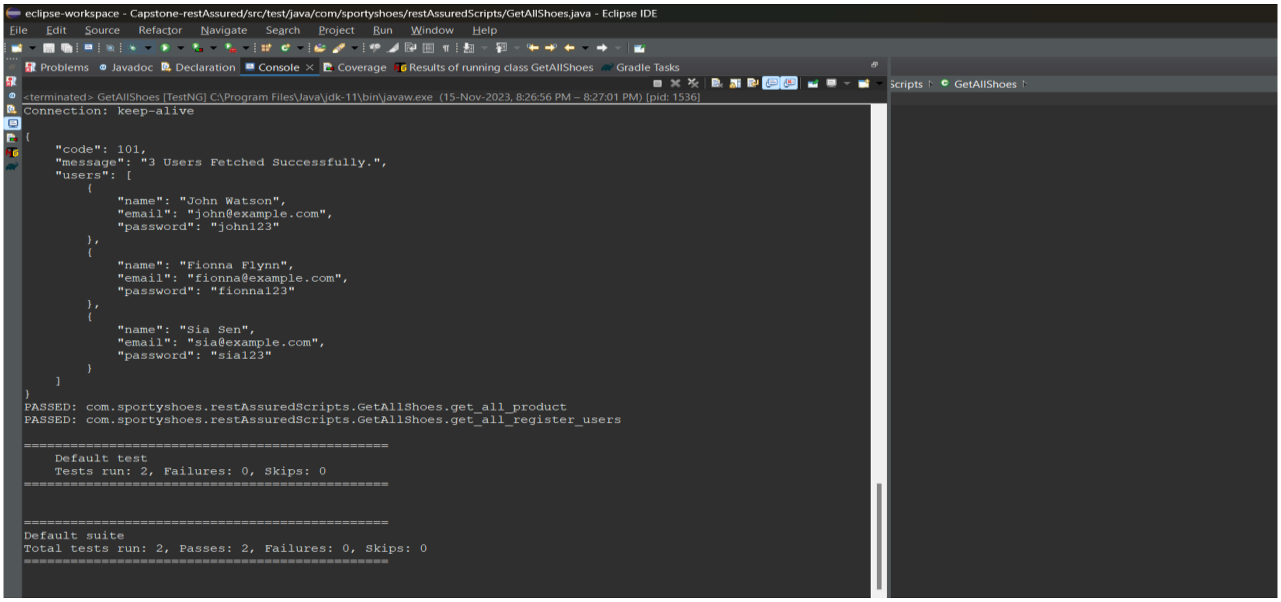
==

- **Retrieving the list of all registered users:**

  ==================================

```
@Test(priority = '2')
public void get_all_register_users()
{
RestAssured.given()
.baseUri("http://localhost:9010")
.basePath("/get-users")
.when()
.get()
.then()
.statusCode(200)
.log()
.all();
} }
```

Output response:


eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/restAssuredScripts/GetAllShoes.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems
Javadoc
Declaration
Console
Coverage
Results of running class GetAllShoes
Gradle Tasks
Scripts
GetAllShoes

```
<terminated> GetAllShoes [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe  (15-Nov-2023, 8:26:56 PM – 8:27:01 PM) [pid: 1536]
Connection: keep-alive

{
    "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"
        }
    ]
}
PASSED: com.sportyshoes.restAssuredScripts.GetAllShoes.get_all_product
PASSED: com.sportyshoes.restAssuredScripts.GetAllShoes.get_all_register_users

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


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

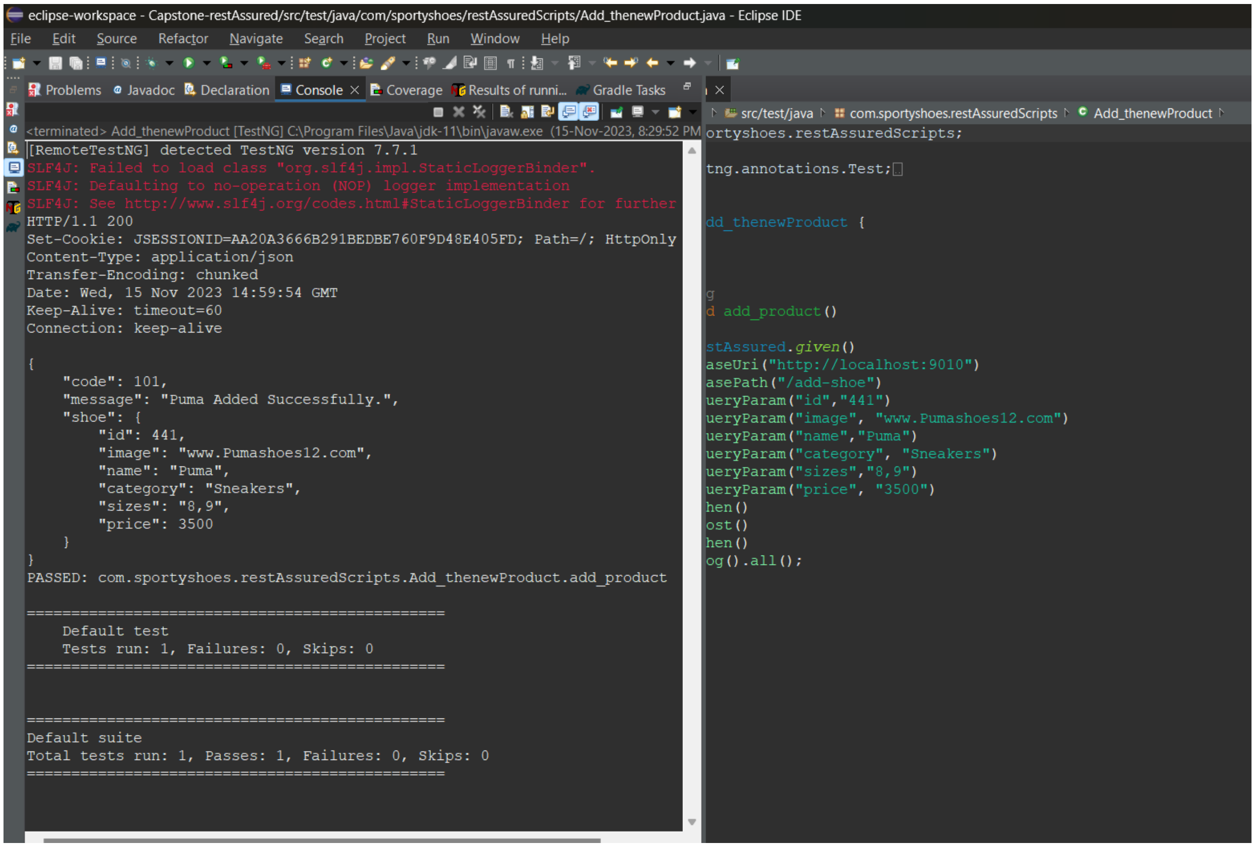
===

- **Add the Products:**

  ===============

```
package com.sportyshoes.restAssuredScripts;

import org.testng.annotations.Test;
import io.restassured.RestAssured;

public class Add_thenewProduct {

@Test
public void add_product()
{
RestAssured.given()
.baseUri("http://localhost:9010")
.basePath("/add-shoe")
.queryParam("id","441")
.queryParam("image", "www.Pumashoes12.com")
.queryParam("name","Puma")
.queryParam("category", "Sneakers")
.queryParam("sizes","8,9")
.queryParam("price", "3500")
.when()
.post()
.then()
.log().all();
}}
```

Output response:



eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/restAssuredScripts/Add_thenewProduct.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems
Javadoc
Declaration
Console
Coverage
Results of runni...
Gradle Tasks
src/test/java
com.sportyshoes.restAssuredScripts
Add_thenewProduct

```
<terminated> Add_thenewProduct [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe (15-Nov-2023, 8:29:52 PM
[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
HTTP/1.1 200
Set-Cookie: JSESSIONID=AA20A3666B291BEDBE760F9D48E405FD; Path=/; HttpOnly
Content-Type: application/json
Transfer-Encoding: chunked
Date: Wed, 15 Nov 2023 14:59:54 GMT
Keep-Alive: timeout=60
Connection: keep-alive

{
    "code": 101,
    "message": "Puma Added Successfully.",
    "shoe": {
        "id": 441,
        "image": "www.Pumashoes12.com",
        "name": "Puma",
        "category": "Sneakers",
        "sizes": "8,9",
        "price": 3500
    }
}
PASSED: com.sportyshoes.restAssuredScripts.Add_thenewProduct.add_product

===============================================
    Default test
    Tests run: 1, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================
```

```
ortyshoes.restAssuredScripts;

tng.annotations.Test;


dd_thenewProduct {



g
d add_product()

stAssured.given()
aseUri("http://localhost:9010")
asePath("/add-shoe")
ueryParam("id","441")
ueryParam("image", "www.Pumashoes12.com")
ueryParam("name","Puma")
ueryParam("category", "Sneakers")
ueryParam("sizes","8,9")
ueryParam("price", "3500")
hen()
ost()
hen()
og().all();
```

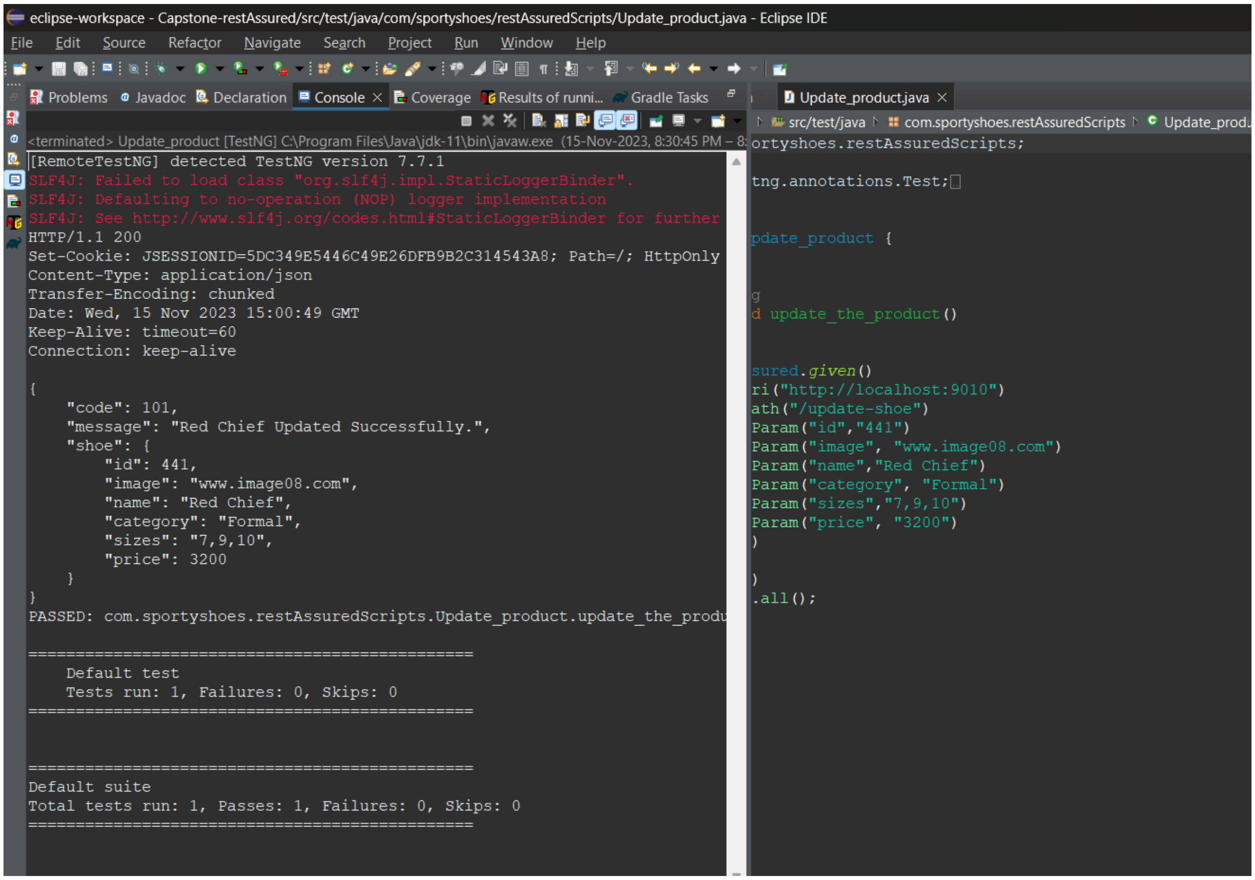
===

- **Update the products:**

  ==================

```
package com.sportyshoes.restAssuredScripts;

import org.testng.annotations.Test;

import io.restassured.RestAssured;

public class Update_product {

        @Test
        public void update_the_product()
        {

                RestAssured.given()
                .baseUri("http://localhost:9010")
                .basePath("/update-shoe")
                .queryParam("id","441")
                .queryParam("image", "www.image08.com")
                .queryParam("name","Red Chief")
                .queryParam("category", "Formal")
                .queryParam("sizes","7,9,10")
                .queryParam("price", "3200")
                .when()
                .put()
                .then()
                .log().all();
} }
```

Output response:


eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/restAssuredScripts/Update_product.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems
Javadoc
Declaration
Console
Coverage
Results of runni...
Gradle Tasks
Update_product.java
src/test/java
com.sportyshoes.restAssuredScripts
Update_prod

```
<terminated> Update_product [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe  (15-Nov-2023, 8:30:45 PM – 8:
[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
HTTP/1.1 200
Set-Cookie: JSESSIONID=5DC349E5446C49E26DFB9B2C314543A8; Path=/; HttpOnly
Content-Type: application/json
Transfer-Encoding: chunked
Date: Wed, 15 Nov 2023 15:00:49 GMT
Keep-Alive: timeout=60
Connection: keep-alive

{
    "code": 101,
    "message": "Red Chief Updated Successfully.",
    "shoe": {
        "id": 441,
        "image": "www.image08.com",
        "name": "Red Chief",
        "category": "Formal",
        "sizes": "7,9,10",
        "price": 3200
    }
}
PASSED: com.sportyshoes.restAssuredScripts.Update_product.update_the_produ

===============================================
    Default test
    Tests run: 1, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================
```

```
ortyshoes.restAssuredScripts;

tng.annotations.Test;


pdate_product {


g
d update_the_product()


sured.given()
ri("http://localhost:9010")
ath("/update-shoe")
Param("id","441")
Param("image", "www.image08.com")
Param("name","Red Chief")
Param("category", "Formal")
Param("sizes","7,9,10")
Param("price", "3200")
)

)
.all();
```

==

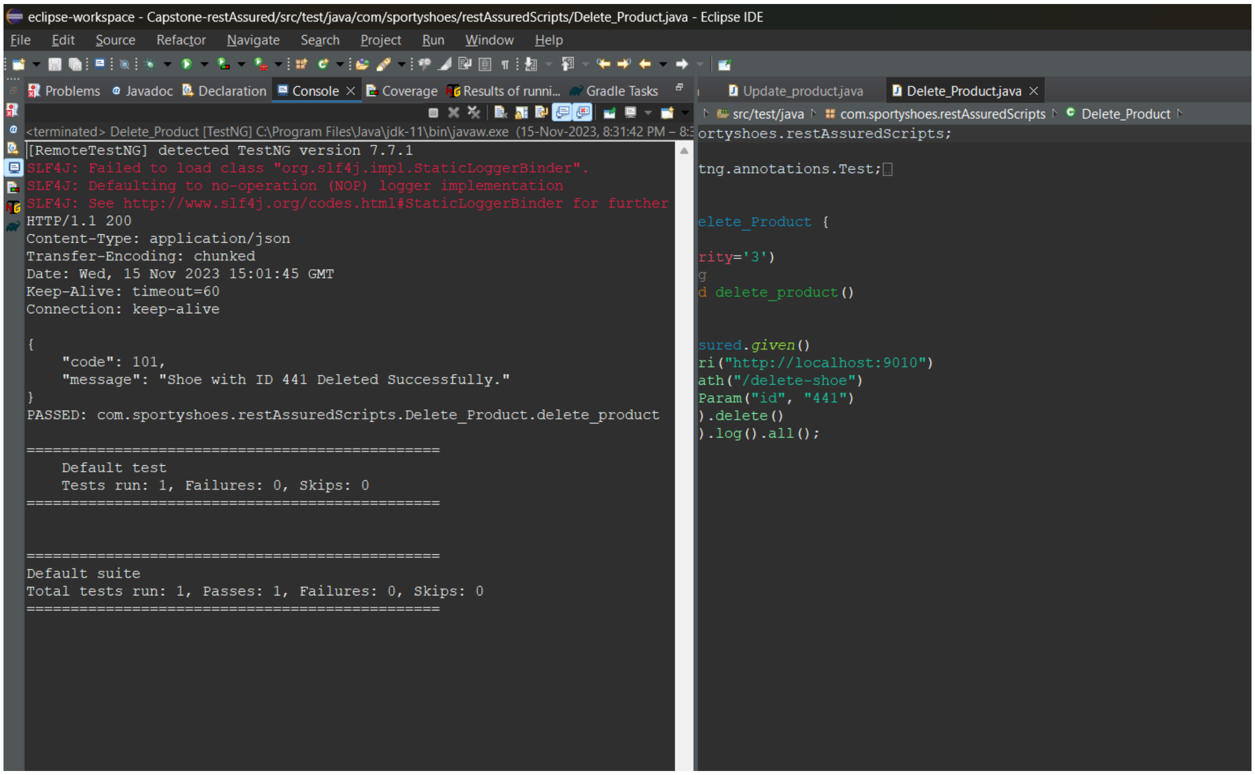
- **Delete the product:**

  =================

```
package com.sportyshoes.restAssuredScripts;

import org.testng.annotations.Test;

import io.restassured.RestAssured;

public class Delete_Product {

	@Test(priority='3')
	public void delete_product()
	{
		RestAssured.given()
		.baseUri("http://localhost:9010")
		.basePath("/delete-shoe")
		.queryParam("id", "441")
		.when().delete()
		.then().log().all();
```

}}

Output response:


eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/restAssuredScripts/Delete_Product.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console Coverage Results of runni... Gradle Tasks
Update_product.java Delete_Product.java
src/test/java com.sportyshoes.restAssuredScripts Delete_Product

```
<terminated> Delete_Product [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe (15-Nov-2023, 8:31:42 PM – 8:3
[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
HTTP/1.1 200
Content-Type: application/json
Transfer-Encoding: chunked
Date: Wed, 15 Nov 2023 15:01:45 GMT
Keep-Alive: timeout=60
Connection: keep-alive

{
    "code": 101,
    "message": "Shoe with ID 441 Deleted Successfully."
}
PASSED: com.sportyshoes.restAssuredScripts.Delete_Product.delete_product

===============================================
    Default test
    Tests run: 1, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================
```

```
ortyshoes.restAssuredScripts;

tng.annotations.Test;


elete_Product {

rity='3')
g
d delete_product()


sured.given()
ri("http://localhost:9010")
ath("/delete-shoe")
Param("id", "441")
).delete()
).log().all();
```

==

2. Selenium Scripts using TestNG to test all the pages with URL: http://localhost:9010/

==

TestBase.java class:

=====================

```
package com.sportyshoes.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();

}}
============================================================
```

- **Selenium script for login page**:

Loginpage.java class:

```
===================
package com.sportyshoes.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 Loginpagetest {

	@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 Loginpagetest(WebDriver driver) {
		PageFactory.initElements(driver, this);
	}

	public void user_login()
	{
		loginEmail.sendKeys("dikshansh067@gmail.com");
		loginpassword.sendKeys("dikshansh@123");
		loginbtn.click();
	}
	public void click_cart()
	{
		clickCart.click();
	} }
```

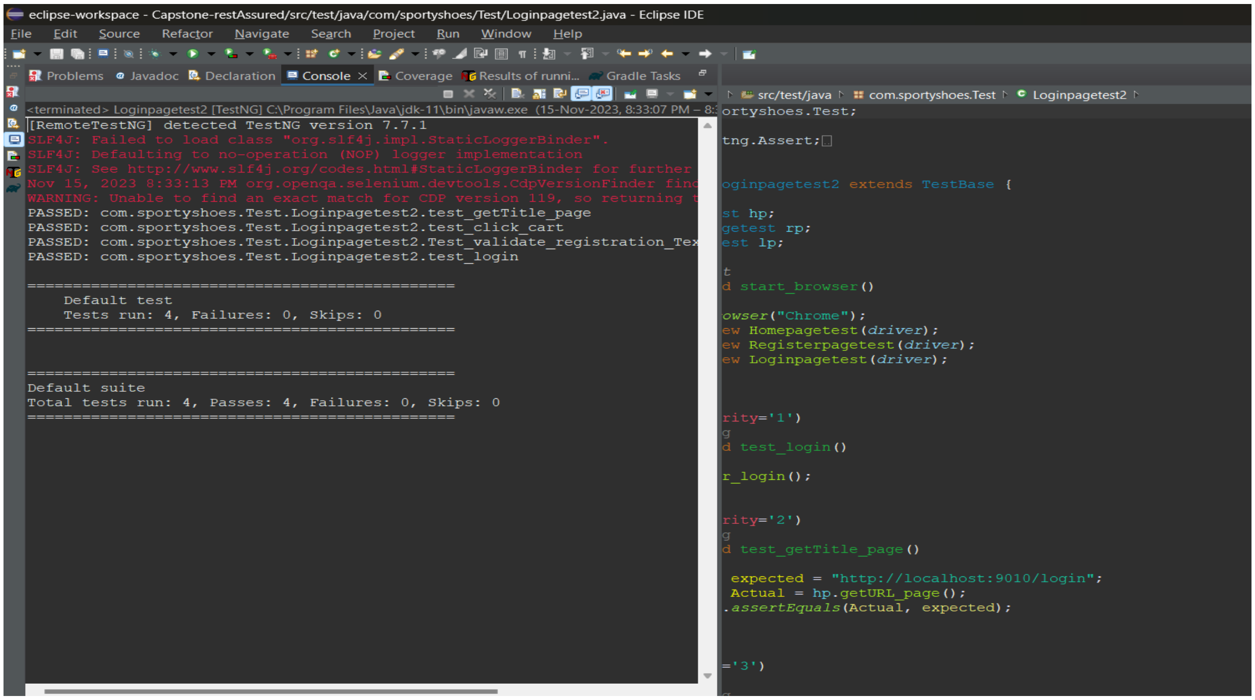
==

Loginpagetest.java

============================

```
package com.sportyshoes.Test;

import org.testng.Assert;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import com.sportyshoes.SeleniumCucumberScripts.Homepagetest;
import com.sportyshoes.SeleniumCucumberScripts.Loginpagetest;
import com.sportyshoes.SeleniumCucumberScripts.Registerpagetest;
import com.sportyshoes.SeleniumCucumberScripts.TestBase;

public class Loginpagetest2 extends TestBase {
	Homepagetest hp;
	Registerpagetest rp;
	Loginpagetest lp;

	@BeforeTest
	public void start_browser()
	{
		OpenBrowser("Chrome");
		hp = new Homepagetest(driver);
		rp = new Registerpagetest(driver);
		lp = new Loginpagetest(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 Dikshansh !";
        String actualText = rp.validate_registration_Text();
        Assert.assertEquals(actualText, expected);
    }
@Test(priority='4')
public void test_click_cart()
{
    lp.click_cart();
} }
```

Output Response:



```
<terminated> Loginpagetest2 [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe  (15-Nov-2023, 8:33:07 PM – 8:
[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
Nov 15, 2023 8:33:13 PM org.openqa.selenium.devtools.CdpVersionFinder find
WARNING: Unable to find an exact match for CDP version 119, so returning t
PASSED: com.sportyshoes.Test.Loginpagetest2.test_getTitle_page
PASSED: com.sportyshoes.Test.Loginpagetest2.test_click_cart
PASSED: com.sportyshoes.Test.Loginpagetest2.Test_validate_registration_Tex
PASSED: com.sportyshoes.Test.Loginpagetest2.test_login

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


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

```
ortyshoes.Test;

tng.Assert;


oginpagetest2 extends TestBase {

st hp;
getest rp;
est lp;

t
d start_browser()

owser("Chrome");
ew Homepagetest(driver);
ew Registerpagetest(driver);
ew Loginpagetest(driver);



rity='1')
g
d test_login()

r_login();


rity='2')
g
d test_getTitle_page()

 expected = "http://localhost:9010/login";
 Actual = hp.getURL_page();
.assertEquals(Actual, expected);



='3')
```

==

Registrationpage.java class:

========================

```
package com.sportyshoes.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 Registerpagetest 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 Registerpagetest(WebDriver driver) {
PageFactory.initElements(driver, this);

}
public void register_user()
{
registername.sendKeys("Dikshansh");
registeremail.sendKeys("dikshansh067@gmail.com");
registerpassword.sendKeys("dikshansh@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;
}}
```

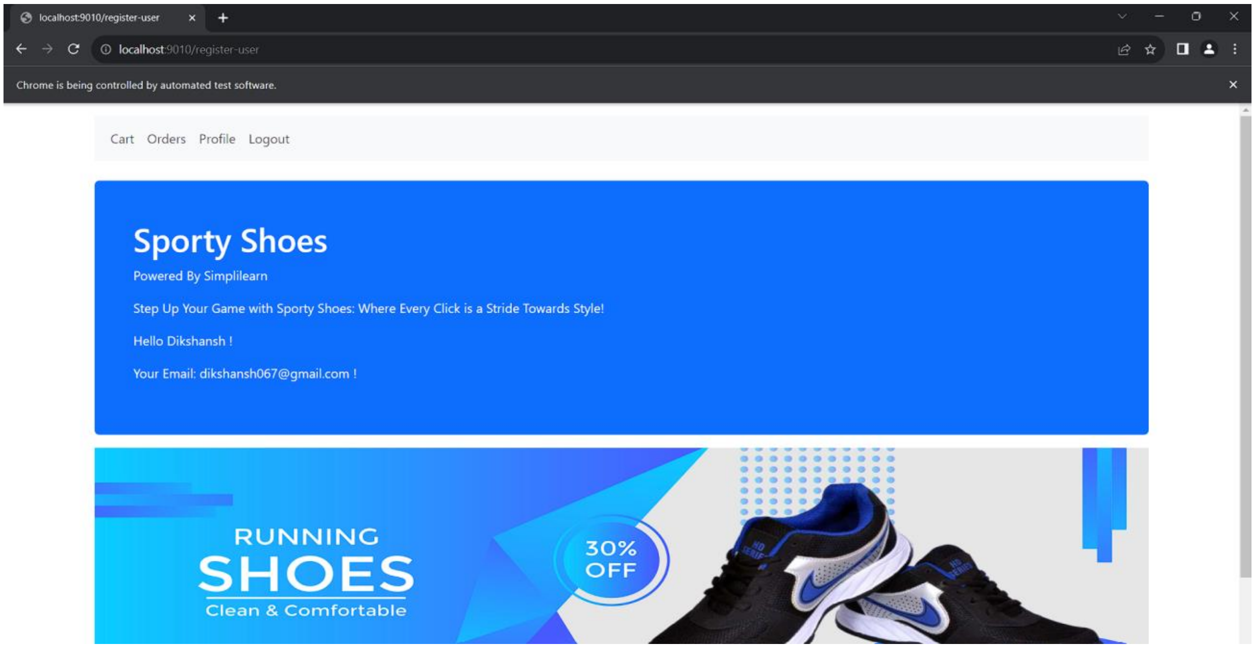
==

Registrationpagetest.java class:

=========================

```
package com.sportyshoes.Test;

import static org.testng.Assert.assertEquals;

import org.testng.Assert;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

import com.sportyshoes.SeleniumCucumberScripts.Homepagetest;
import com.sportyshoes.SeleniumCucumberScripts.Registerpagetest;
import com.sportyshoes.SeleniumCucumberScripts.TestBase;

public class Registerpagetest2 extends TestBase{

Homepagetest hp;
Registerpagetest rp;

@BeforeTest
public void start_browser()
{
OpenBrowser("Chrome");
hp = new Homepagetest(driver);
rp = new Registerpagetest(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 Dikshansh !";
String actualText = rp.validate_registration_Text();
Assert.assertEquals(actualText, expected);
}}
```

Output Response:



Chrome is being controlled by automated test software.

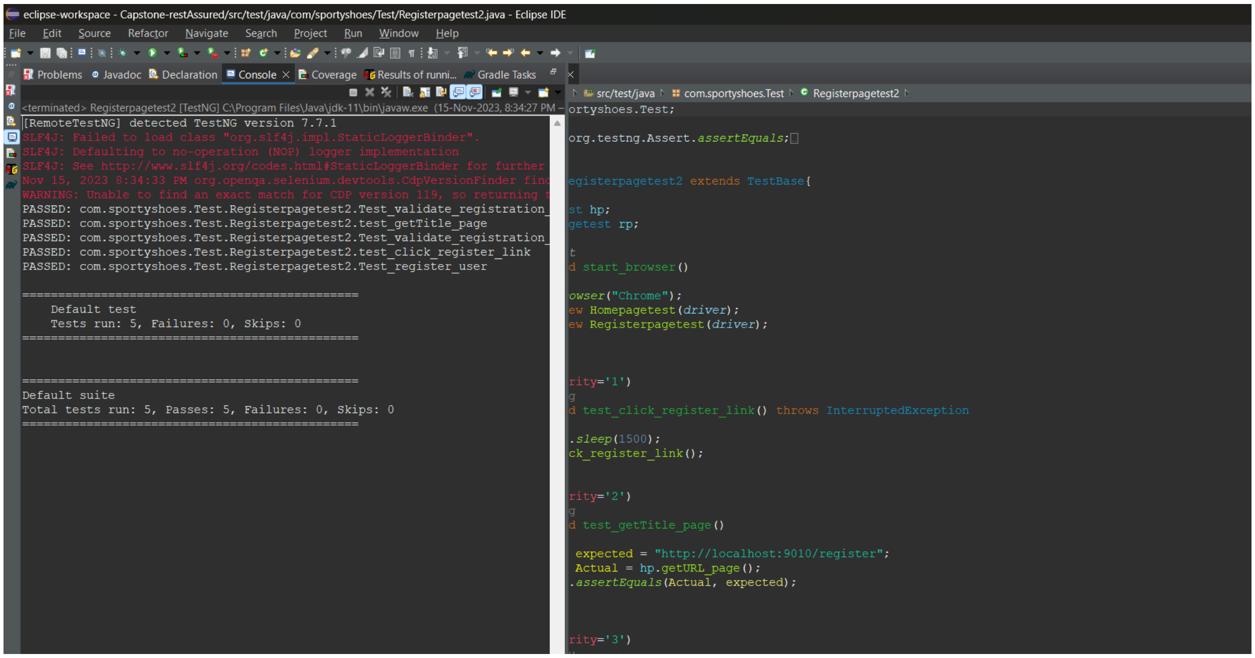
Sporty Shoes

Powered By Simplilearn

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

Hello Dikshansh !

Your Email: dikshansh067@gmail.com !



eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/Test/Registerpagetest2.java - Eclipse IDE

```
<terminated> Registerpagetest2 [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe (15-Nov-2023, 8:34:27 PM –
[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
Nov 15, 2023 8:34:33 PM org.openqa.selenium.devtools.CdpVersionFinder find
WARNING: Unable to find an exact match for CDP version 119, so returning t
PASSED: com.sportyshoes.Test.Registerpagetest2.Test_validate_registration_
PASSED: com.sportyshoes.Test.Registerpagetest2.test_getTitle_page
PASSED: com.sportyshoes.Test.Registerpagetest2.Test_validate_registration_
PASSED: com.sportyshoes.Test.Registerpagetest2.test_click_register_link
PASSED: com.sportyshoes.Test.Registerpagetest2.Test_register_user

===============================================
    Default test
    Tests run: 5, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 5, Passes: 5, Failures: 0, Skips: 0
===============================================
```

```
ortyshoes.Test;

org.testng.Assert.assertEquals;


egisterpagetest2 extends TestBase{

st hp;
getest rp;

t
d start_browser()

owser("Chrome");
ew Homepagetest(driver);
ew Registerpagetest(driver);



rity='1')
g
d test_click_register_link() throws InterruptedException

.sleep(1500);
ck_register_link();


rity='2')
g
d test_getTitle_page()

 expected = "http://localhost:9010/register";
 Actual = hp.getURL_page();
.assertEquals(Actual, expected);



rity='3')
```

===

Addproducttocart.java class:

=============================

```
package com.sportyshoes.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 Addtocarttest {

	@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 Addtocarttest(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;
        }  }
```

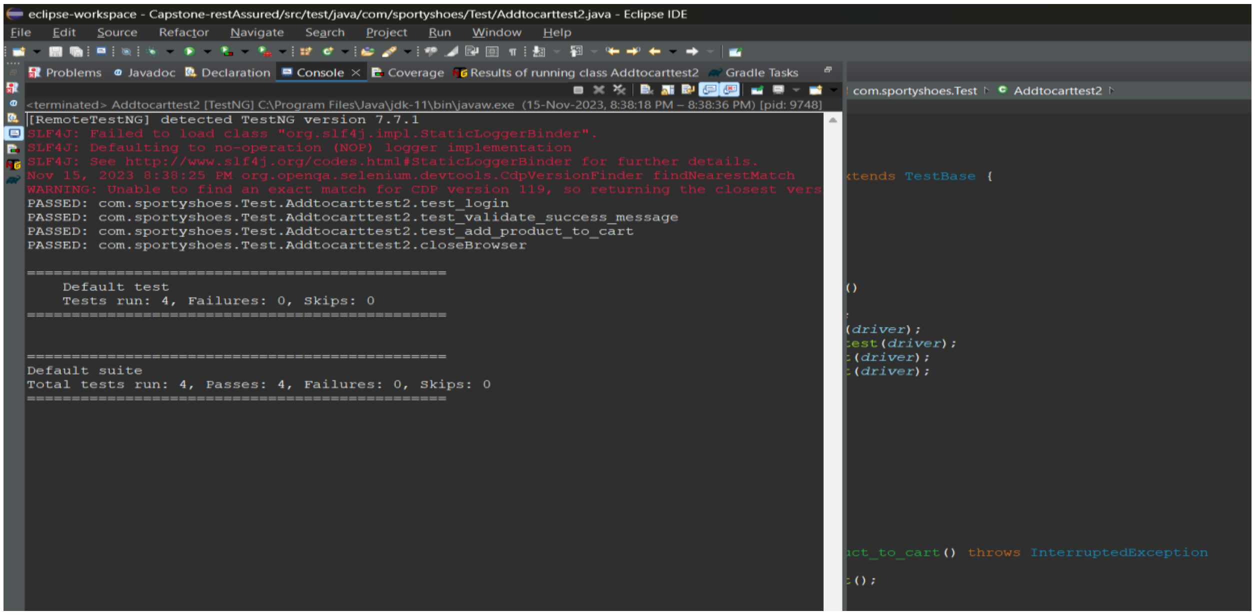
==

Addproducttocarttest.java class:

==========================

```
package com.sportyshoes.Test;

import org.testng.Assert;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

import com.sportyshoes.SeleniumCucumberScripts.Addtocarttest;
import com.sportyshoes.SeleniumCucumberScripts.Homepagetest;
import com.sportyshoes.SeleniumCucumberScripts.Loginpagetest;
import com.sportyshoes.SeleniumCucumberScripts.Registerpagetest;
import com.sportyshoes.SeleniumCucumberScripts.TestBase;

public class Addtocarttest2 extends TestBase {

Homepagetest hp;
Registerpagetest rp;
Loginpagetest lp;
Addtocarttest ac;

@BeforeTest
public void start_browser()
{
OpenBrowser("Chrome");
hp = new Homepagetest(driver);
rp = new Registerpagetest(driver);
lp = new Loginpagetest(driver);
ac = new Addtocarttest(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);
}

@Test (priority='4')
public void closeBrowser()
{
driver.close();
}
}
```

Output Response:


eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/Test/Addtocarttest2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems
Javadoc
Declaration
Console
Coverage
Results of running class Addtocarttest2
Gradle Tasks
com.sportyshoes.Test
Addtocarttest2

```
<terminated> Addtocarttest2 [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe  (15-Nov-2023, 8:38:18 PM – 8:38:36 PM) [pid: 9748]
[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 8:38:25 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 119, so returning the closest vers
PASSED: com.sportyshoes.Test.Addtocarttest2.test_login
PASSED: com.sportyshoes.Test.Addtocarttest2.test_validate_success_message
PASSED: com.sportyshoes.Test.Addtocarttest2.test_add_product_to_cart
PASSED: com.sportyshoes.Test.Addtocarttest2.closeBrowser

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


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

```
tends TestBase {

()

(driver);
est(driver);
(driver);
(driver);

ct_to_cart() throws InterruptedException

();
```

===

Orderpage.java class:

============================

```
package com.sportyshoes.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 Orderpagetest {

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


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

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

	}
}
```

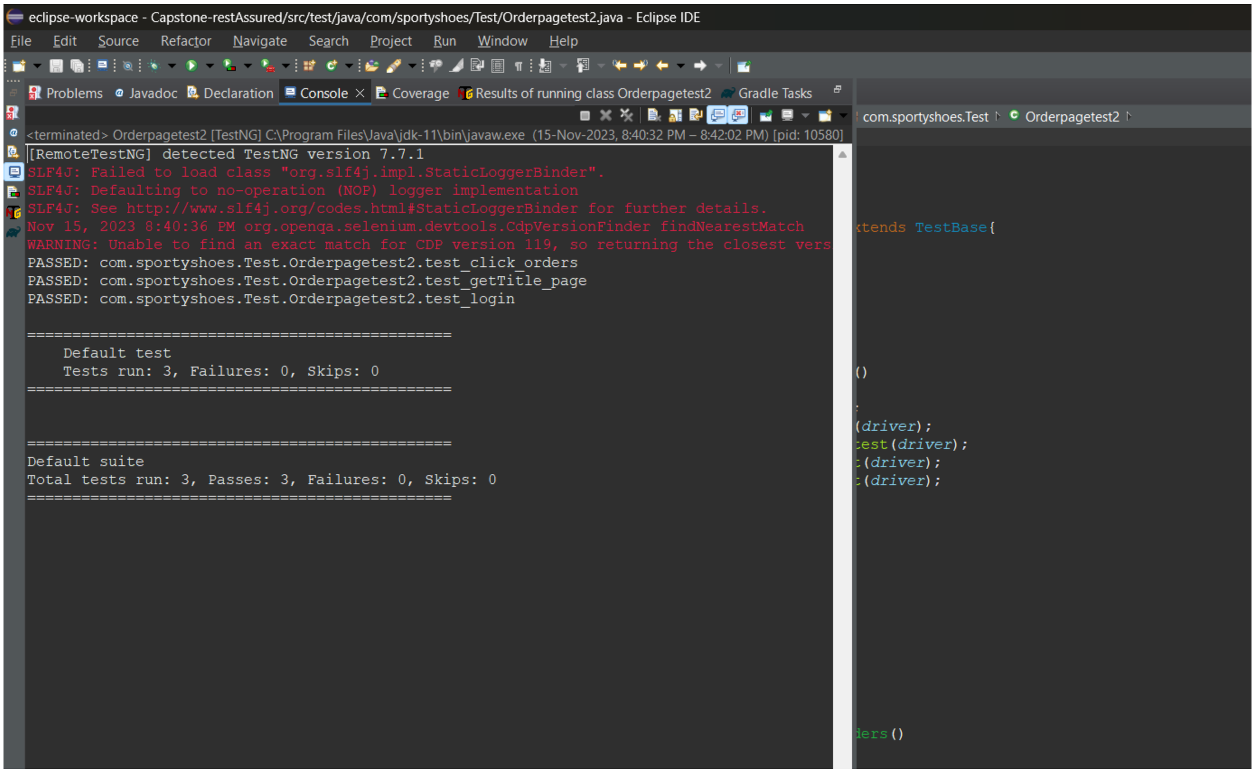
===

Orderpagetest.java class:

============================

```
package com.sportyshoes.Test;

import org.testng.Assert;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

import com.sportyshoes.SeleniumCucumberScripts.Homepagetest;
import com.sportyshoes.SeleniumCucumberScripts.Loginpagetest;
import com.sportyshoes.SeleniumCucumberScripts.Orderpagetest;
import com.sportyshoes.SeleniumCucumberScripts.Registerpagetest;
import com.sportyshoes.SeleniumCucumberScripts.TestBase;

public class Orderpagetest2 extends TestBase{

    Homepagetest hp;
    Registerpagetest rp;
    Loginpagetest lp;
    Orderpagetest op;

    @BeforeTest
    public void start_browser()
    {
        OpenBrowser("Chrome");
        hp = new Homepagetest(driver);
        rp = new Registerpagetest(driver);
        lp = new Loginpagetest(driver);
        op = new Orderpagetest(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);
    }
}
```

Output:


eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/Test/Orderpagetest2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems
Javadoc
Declaration
Console
Coverage
Results of running class Orderpagetest2
Gradle Tasks
com.sportyshoes.Test
Orderpagetest2

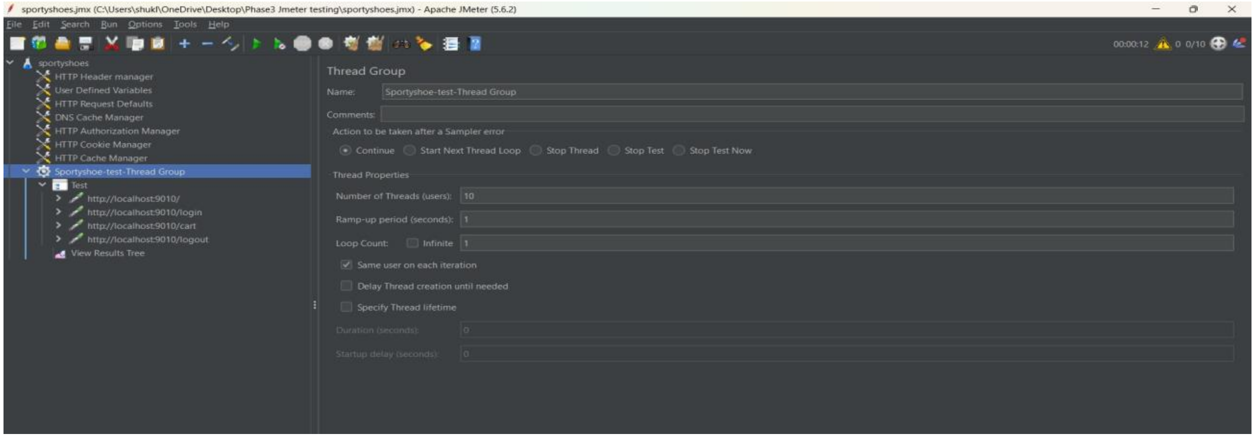
```
<terminated> Orderpagetest2 [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe  (15-Nov-2023, 8:40:32 PM – 8:42:02 PM) [pid: 10580]
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 15, 2023 8:40:36 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 119, so returning the closest vers
PASSED: com.sportyshoes.Test.Orderpagetest2.test_click_orders
PASSED: com.sportyshoes.Test.Orderpagetest2.test_getTitle_page
PASSED: com.sportyshoes.Test.Orderpagetest2.test_login

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


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

```
xtends TestBase{

()

(driver);
est(driver);
:(driver);
:(driver);

ders()
```

---

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

The below are the scripts which had been recorded on http://localhost:9010/ -> login -> cart -> logout and performed the load testing with threads = 10


sportyshoes.jmx (C:\Users\shukl\OneDrive\Desktop\Phase3 Jmeter testing\sportyshoes.jmx) - Apache JMeter (5.6.2)
File Edit Search Run Options Tools Help
00:00:12
0 0/10

- sportyshoes
  - HTTP Header manager
  - User Defined Variables
  - HTTP Request Defaults
  - DNS Cache Manager
  - HTTP Authorization Manager
  - HTTP Cookie Manager
  - HTTP Cache Manager
  - Sportyshoe-test-Thread Group
    - Test
      - http://localhost:9010/
      - http://localhost:9010/login
      - http://localhost:9010/cart
      - http://localhost:9010/logout
    - View Results Tree

Thread Group

Name: Sportyshoe-test-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

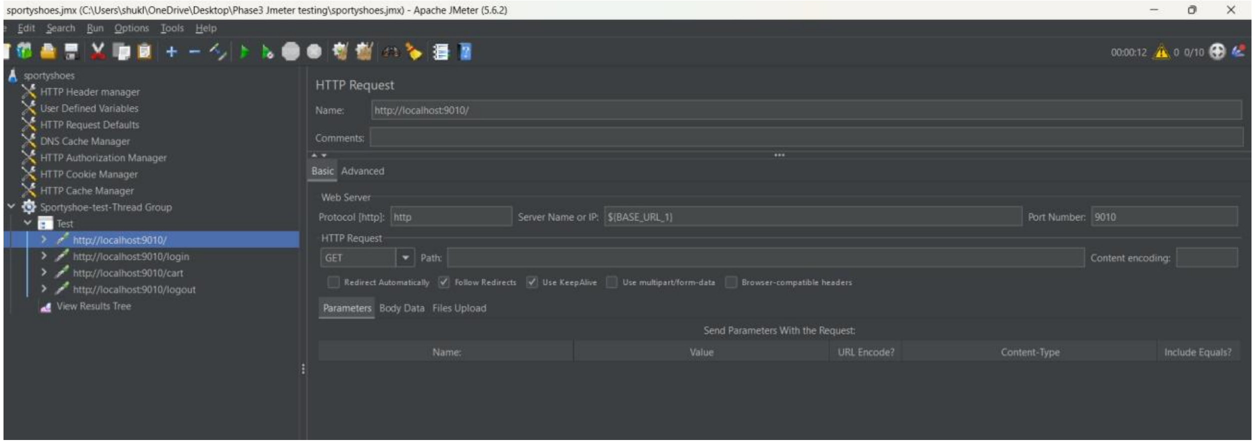
☑ Same user on each iteration

□ Delay Thread creation until needed

□ Specify Thread lifetime

Duration (seconds): 0

Startup delay (seconds): 0


sportyshoes.jmx (C:\Users\shukl\OneDrive\Desktop\Phase3 Jmeter testing\sportyshoes.jmx) - Apache JMeter (5.6.2)
Edit Search Run Options Tools Help
00:00:12 0 0/10
sportyshoes
HTTP Header manager
User Defined Variables
HTTP Request Defaults
DNS Cache Manager
HTTP Authorization Manager
HTTP Cookie Manager
HTTP Cache Manager
Sportyshoe-test-Thread Group
Test
http://localhost:9010/
http://localhost:9010/login
http://localhost:9010/cart
http://localhost:9010/logout
View Results Tree
Basic Advanced
Parameters Body Data Files Upload

HTTP Request

Name: http://localhost:9010/

Comments:

Web Server

Protocol [http]: http Server Name or IP: ${BASE_URL_1} Port Number: 9010

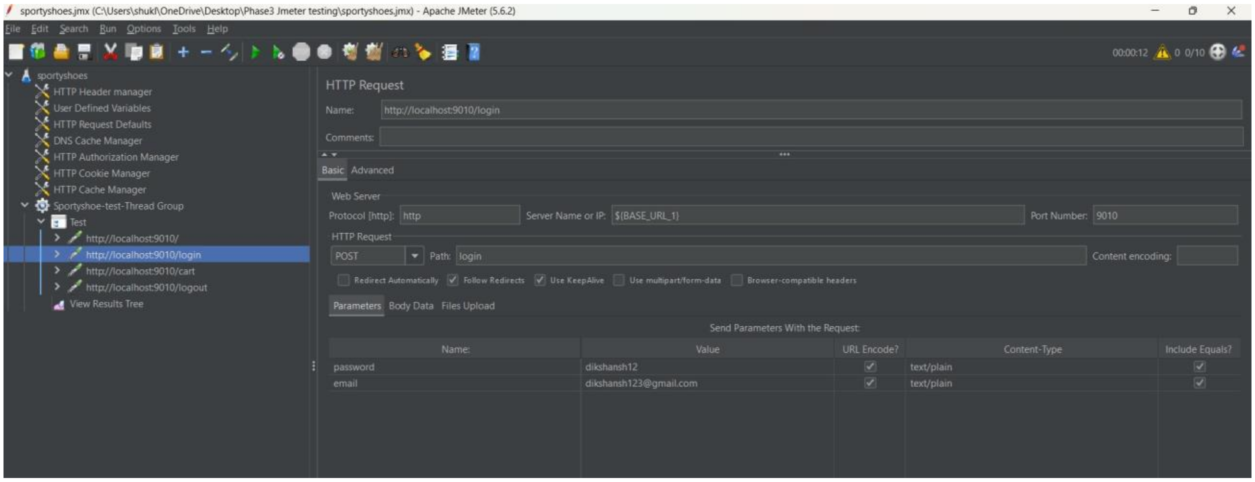
HTTP Request

GET Path: Content encoding:

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

Send Parameters With the Request:

Name:	Value	URL Encode?	Content-Type	Include Equals?


sportyshoes.jmx (C:\Users\shukl\OneDrive\Desktop\Phase3 Jmeter testing\sportyshoes.jmx) - Apache JMeter (5.6.2)
File Edit Search Run Options Tools Help
00:00:12 0 0/10
sportyshoes
HTTP Header manager
User Defined Variables
HTTP Request Defaults
DNS Cache Manager
HTTP Authorization Manager
HTTP Cookie Manager
HTTP Cache Manager
Sportyshoe-test-Thread Group
Test
http://localhost:9010/
http://localhost:9010/login
http://localhost:9010/cart
http://localhost:9010/logout
View Results Tree
Basic Advanced
Parameters Body Data Files Upload

HTTP Request

Name: http://localhost:9010/login

Comments:

Web Server

Protocol [http]: http Server Name or IP: ${BASE_URL_1} Port Number: 9010

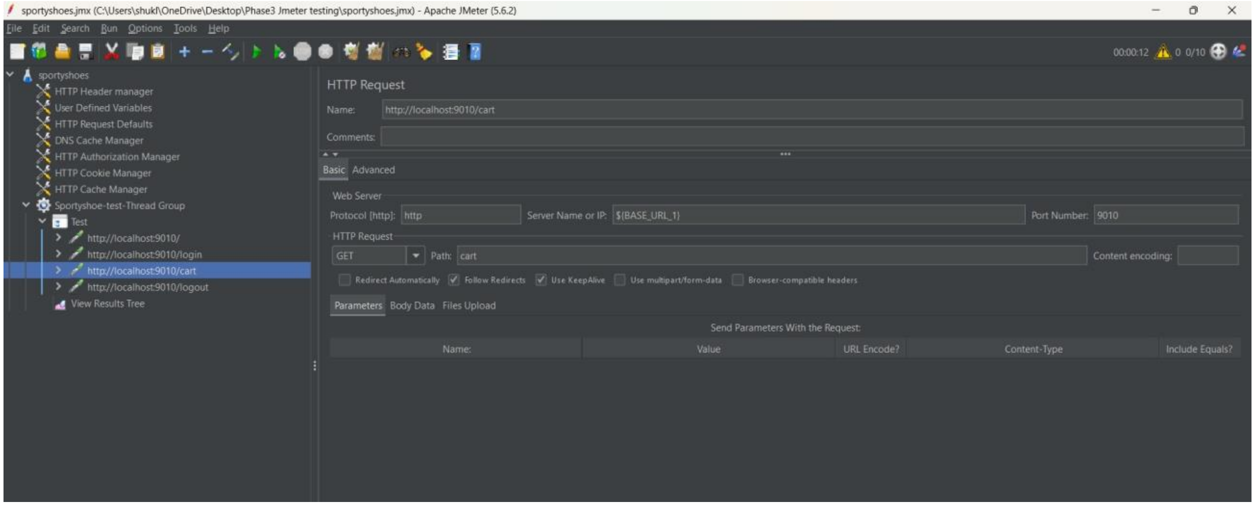
HTTP Request

POST Path: login Content encoding:

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

Send Parameters With the Request:

Name:	Value	URL Encode?	Content-Type	Include Equals?
password	dikshansh12	☑	text/plain	☑
email	dikshansh123@gmail.com	☑	text/plain	☑


sportyshoes.jmx (C:\Users\shukl\OneDrive\Desktop\Phase3 Jmeter testing\sportyshoes.jmx) - Apache JMeter (5.6.2)
File Edit Search Run Options Tools Help
00:00:12 0 0/10
sportyshoes
HTTP Header manager
User Defined Variables
HTTP Request Defaults
DNS Cache Manager
HTTP Authorization Manager
HTTP Cookie Manager
HTTP Cache Manager
Sportyshoe-test-Thread Group
Test
http://localhost:9010/
http://localhost:9010/login
http://localhost:9010/cart
http://localhost:9010/logout
View Results Tree
Basic Advanced
Parameters Body Data Files Upload

HTTP Request

Name: http://localhost:9010/cart

Comments:

Web Server

Protocol [http]: http Server Name or IP: ${BASE_URL_1} Port Number: 9010

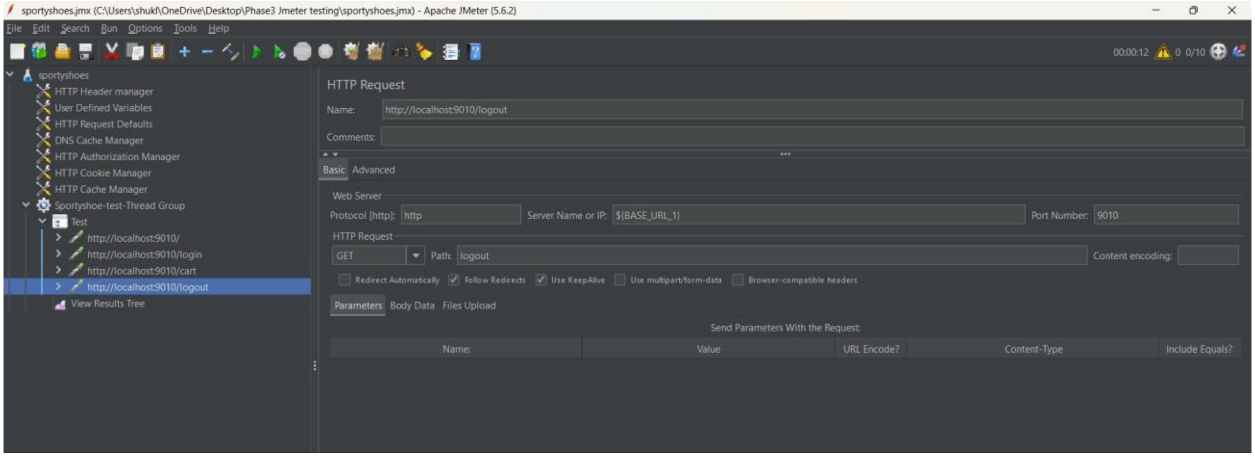
HTTP Request

GET Path: cart Content encoding:

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

Send Parameters With the Request:

Name:	Value	URL Encode?	Content-Type	Include Equals?


sportyshoes.jmx (C:\Users\shukl\OneDrive\Desktop\Phase3 Jmeter testing\sportyshoes.jmx) - Apache JMeter (5.6.2)
File Edit Search Run Options Tools Help
00:00:12 0 0/10
sportyshoes
HTTP Header manager
User Defined Variables
HTTP Request Defaults
DNS Cache Manager
HTTP Authorization Manager
HTTP Cookie Manager
HTTP Cache Manager
Sportyshoe-test-Thread Group
Test
http://localhost:9010/
http://localhost:9010/login
http://localhost:9010/cart
http://localhost:9010/logout
View Results Tree
Basic Advanced
Parameters Body Data Files Upload
Name: Value URL Encode? Content-Type Include Equals?

HTTP Request

Name: http://localhost:9010/logout

Comments:

Web Server

Protocol [http]: http Server Name or IP: ${BASE_URL_1} Port Number: 9010

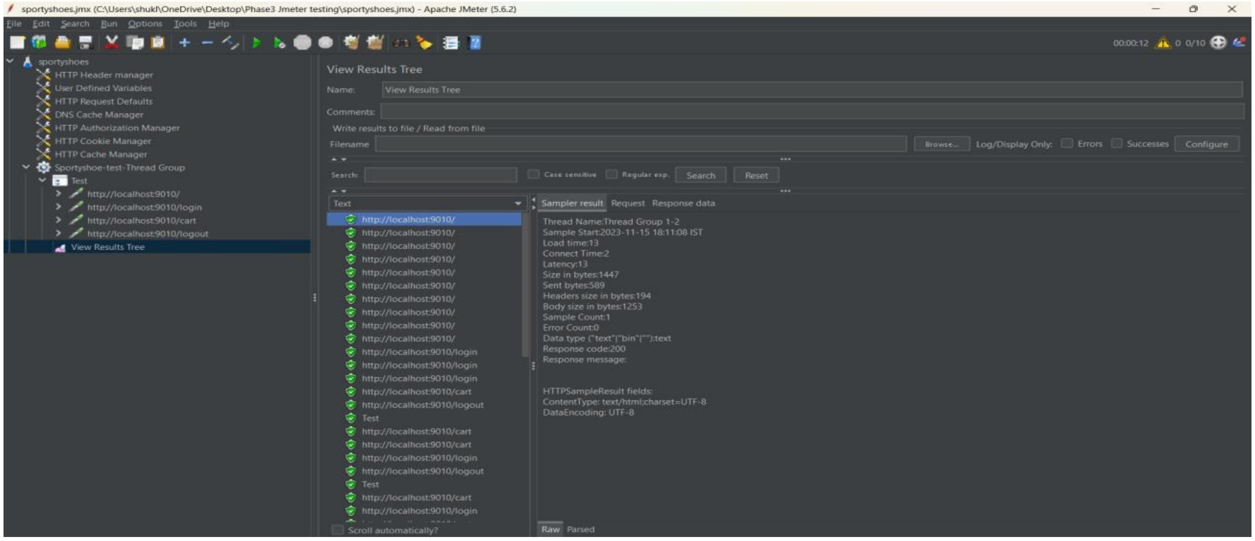
HTTP Request

GET Path: logout Content encoding:

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

Send Parameters With the Request:

Output Response:


sportyshoes.jmx (C:\Users\shukl\OneDrive\Desktop\Phase3 Jmeter testing\sportyshoes.jmx) - Apache JMeter (5.6.2)
File Edit Search Run Options Tools Help
00:00:12 0 0/10
sportyshoes
HTTP Header manager
User Defined Variables
HTTP Request Defaults
DNS Cache Manager
HTTP Authorization Manager
HTTP Cookie Manager
HTTP Cache Manager
Sportyshoe-test-Thread Group
Test
http://localhost:9010/
http://localhost:9010/login
http://localhost:9010/cart
http://localhost:9010/logout
View Results Tree
Browse... Log/Display Only: Errors Successes Configure
Search: Case sensitive Regular exp. Search Reset
Text
Sampler result Request Response data
Raw Parsed
Scroll automatically?

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename

```
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/cart
http://localhost:9010/logout
Test
http://localhost:9010/cart
http://localhost:9010/cart
http://localhost:9010/login
http://localhost:9010/logout
Test
http://localhost:9010/cart
http://localhost:9010/login
```

```
Thread Name:Thread Group 1-2
Sample Start:2023-11-15 18:11:08 IST
Load time:13
Connect Time:2
Latency:13
Size in bytes:1447
Sent bytes:589
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
```

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

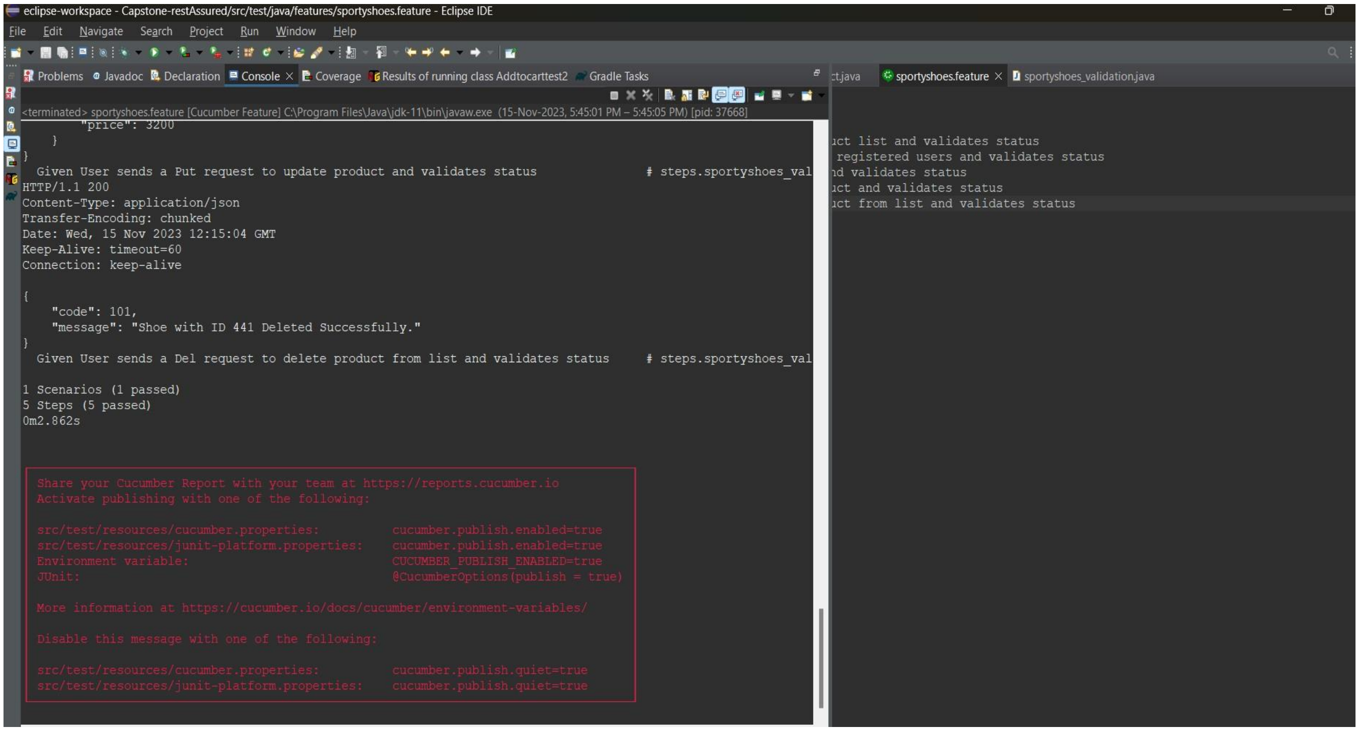
Sportyshoe.feature file:
========================

```
Feature: Implement The Capstone Project

  Scenario: Rest API testing on localhost:9010
    Given User send a Get request to display product list and validates status
    Given User sends a Get request to get list of registered users and validates status
    Given User send Post request to Add product and validates status
    Given User sends a Put request to update product and validates status
    Given User sends a Del request to delete product from list and validates status
```

```
Steps file:
(sportyshoes_validate.java)
==========================

package steps;

import io.cucumber.java.en.Given;
import io.restassured.RestAssured;

public class sportyshoes_validation {

    @Given("User send a Get request to display product list and validates status")
    public void user_send_a_get_request_to_display_product_list_and_validates_status() {

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

    }

    @Given("User sends a Get request to get list of registered users and validates status")
    public void user_sends_a_get_request_to_get_list_of_registered_users_and_validates_status() {

        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/get-users")
        .when()
        .get()
        .then()
        .statusCode(200)
        .log()
        .all();

    }

    @Given("User send Post request to Add product and validates status")
    public void user_send_post_request_to_add_product_and_validates_status() {

        RestAssured.given()
        .baseUri("http://localhost:9010")
        .basePath("/add-shoe")
				.queryParam("id","441")
				.queryParam("image", "www.Pumashoes12.com")
				.queryParam("name","Puma")
				.queryParam("category", "Sneakers")
				.queryParam("sizes","8,9")
				.queryParam("price", "3500")
				.when()
				.post()
				.then()
				.log().all();

	}

	@Given("User sends a Put request to update product and validates status")
	public void user_sends_a_put_request_to_update_product_and_validates_status() {

				RestAssured.given()
				.baseUri("http://localhost:9010")
				.basePath("/update-shoe")
				.queryParam("id","441")
				.queryParam("image", "www.image08.com")
				.queryParam("name","Red Chief")
				.queryParam("category", "Formal")
				.queryParam("sizes","7,9,10")
				.queryParam("price", "3200")
				.when()
				.put()
				.then()
				.log().all();

	}

	@Given("User sends a Del request to delete product from list and validates status")
	public void user_sends_a_del_request_to_delete_product_from_list_and_validates_status() {

				RestAssured.given()
				.baseUri("http://localhost:9010")
				.basePath("/delete-shoe")
				.queryParam("id", "441")
				.when().delete()
				.then().log().all();
	}
}
```

==

Cucumber Output response:


eclipse-workspace - Capstone-restAssured/src/test/java/features/sportyshoes.feature - Eclipse IDE
File
Edit
Navigate
Search
Project
Run
Window
Help
Problems
Javadoc
Declaration
Console
Coverage
Results of running class Addtocarttest2
Gradle Tasks
ct.java
sportyshoes.feature
sportyshoes_validation.java

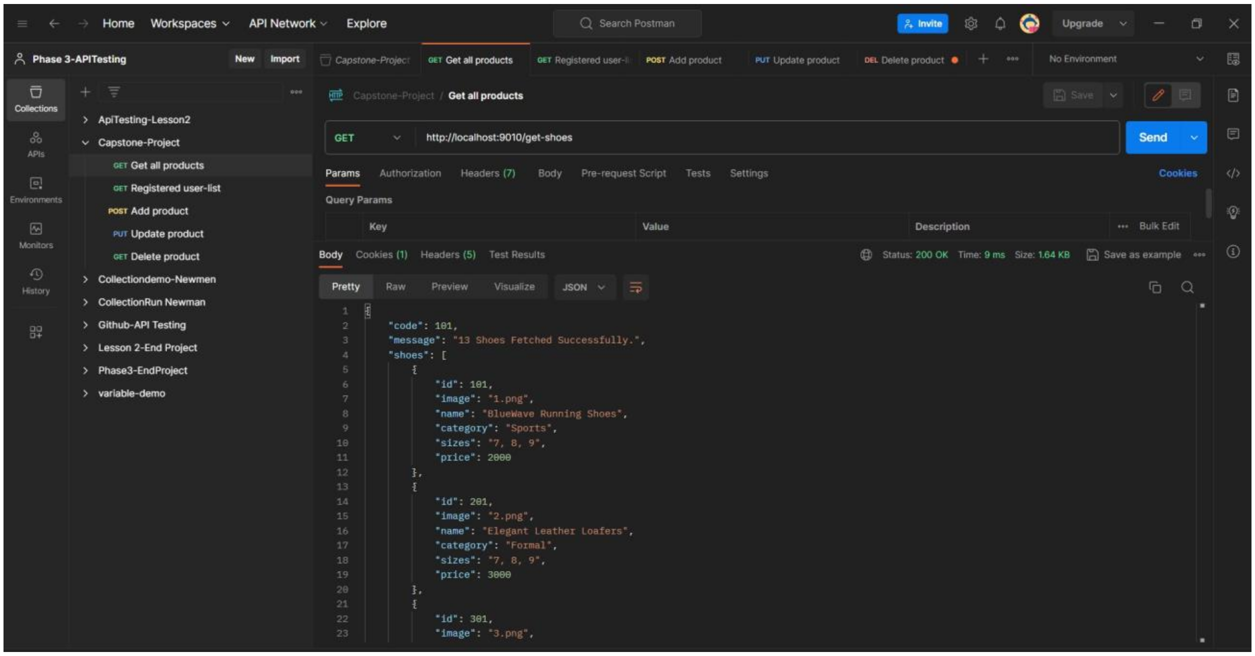
```
<terminated> sportyshoes.feature [Cucumber Feature] C:\Program Files\Java\jdk-11\bin\javaw.exe  (15-Nov-2023, 5:45:01 PM – 5:45:05 PM) [pid: 37668]
        "price": 3200
    }
}
  Given User sends a Put request to update product and validates status               # steps.sportyshoes_val
HTTP/1.1 200
Content-Type: application/json
Transfer-Encoding: chunked
Date: Wed, 15 Nov 2023 12:15:04 GMT
Keep-Alive: timeout=60
Connection: keep-alive

{
    "code": 101,
    "message": "Shoe with ID 441 Deleted Successfully."
}
  Given User sends a Del request to delete product from list and validates status     # steps.sportyshoes_val

1 Scenarios (1 passed)
5 Steps (5 passed)
0m2.862s


┌──────────────────────────────────────────────────────────────────────────────────┐
│ Share your Cucumber Report with your team at https://reports.cucumber.io         │
│ Activate publishing with one of the following:                                   │
│                                                                                  │
│ src/test/resources/cucumber.properties:          cucumber.publish.enabled=true   │
│ src/test/resources/junit-platform.properties:    cucumber.publish.enabled=true   │
│ Environment variable:                            CUCUMBER_PUBLISH_ENABLED=true   │
│ JUnit:                                           @CucumberOptions(publish = true)│
│                                                                                  │
│ More information at https://cucumber.io/docs/cucumber/environment-variables/     │
│                                                                                  │
│ Disable this message with one of the following:                                  │
│                                                                                  │
│ src/test/resources/cucumber.properties:          cucumber.publish.quiet=true     │
│ src/test/resources/junit-platform.properties:    cucumber.publish.quiet=true     │
└──────────────────────────────────────────────────────────────────────────────────┘
```

```
uct list and validates status
 registered users and validates status
nd validates status
uct and validates status
uct from list and validates status
```

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

Display all products in the store:

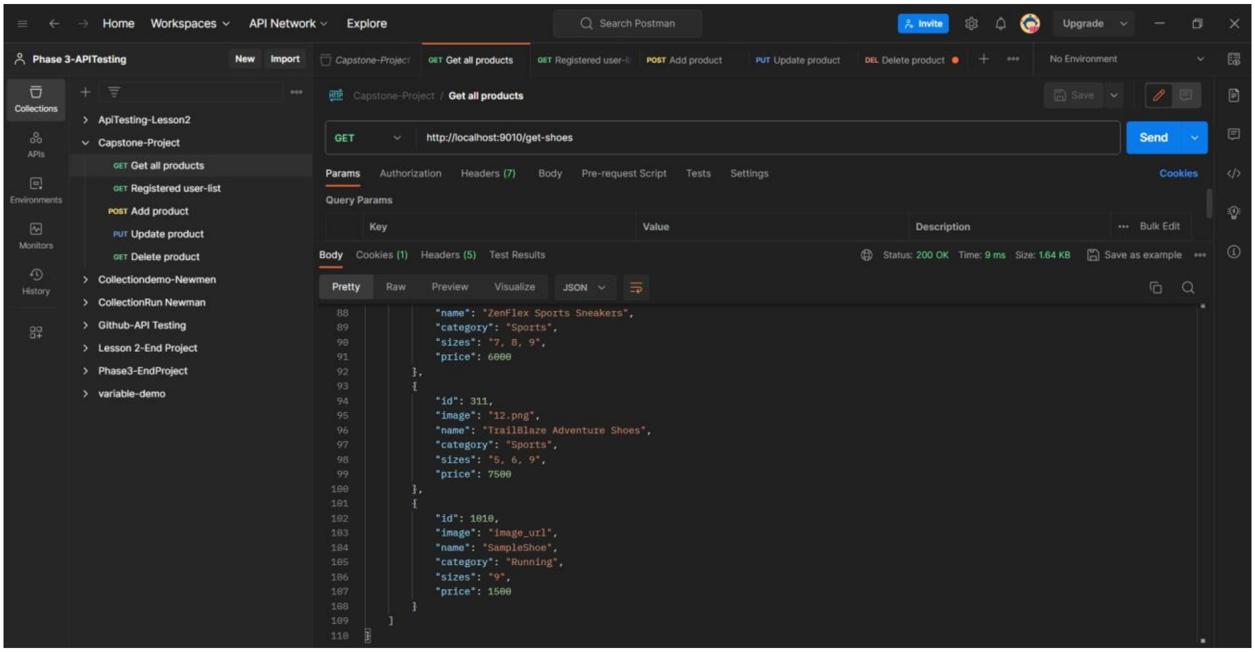
Here below we have created a new collection from top left (+) symbol with name Capstone-Project after that we have Added a Get request to retrieve all the products with url http://localhost:9010/get-shoes and then we have save the request and click on send to get the below response



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

Status: 200 OK Time: 9 ms Size: 1.64 KB

```
{
    "code": 101,
    "message": "13 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",
```



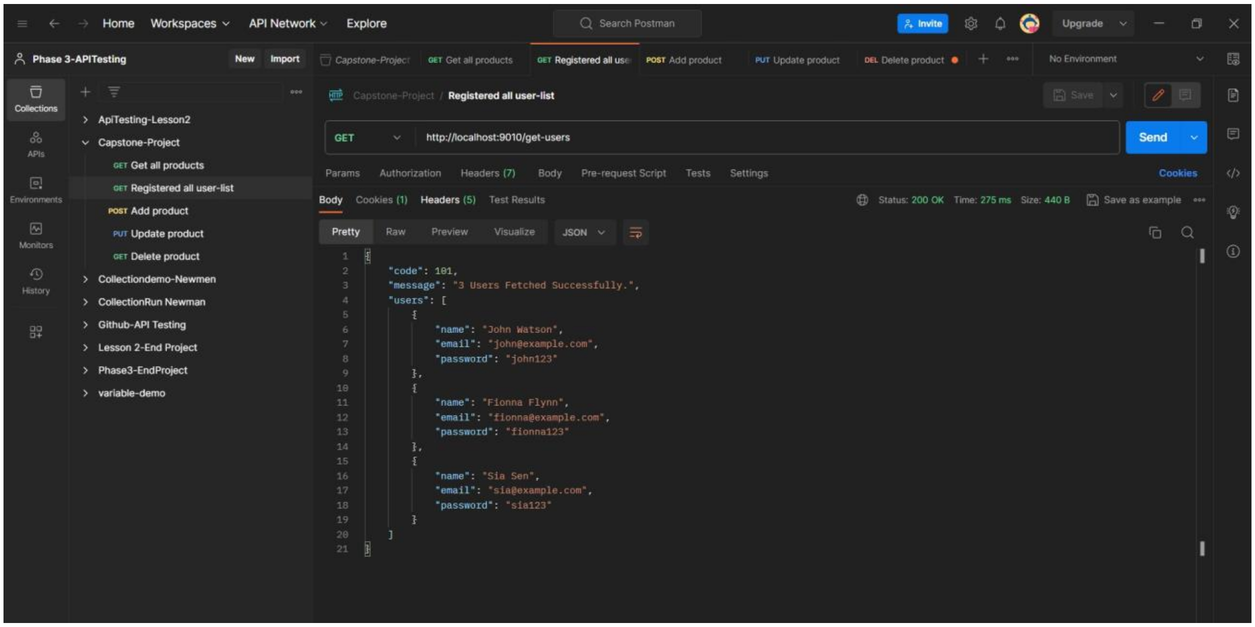
GET http://localhost:9010/get-shoes

Status: 200 OK Time: 9 ms Size: 1.64 KB

```
            "name": "ZenFlex Sports Sneakers",
            "category": "Sports",
            "sizes": "7, 8, 9",
            "price": 6000
        },
        {
            "id": 311,
            "image": "12.png",
            "name": "TrailBlaze Adventure Shoes",
            "category": "Sports",
            "sizes": "5, 6, 9",
            "price": 7500
        },
        {
            "id": 1010,
            "image": "image_url",
            "name": "SampleShoe",
            "category": "Running",
            "sizes": "9",
            "price": 1500
        }
    ]
}
```

Display list of all registered users:

we have Added a Get request to retrieve all the registered users with url http://localhost:9010/get-users and then we have save the request and click on send to get the below response



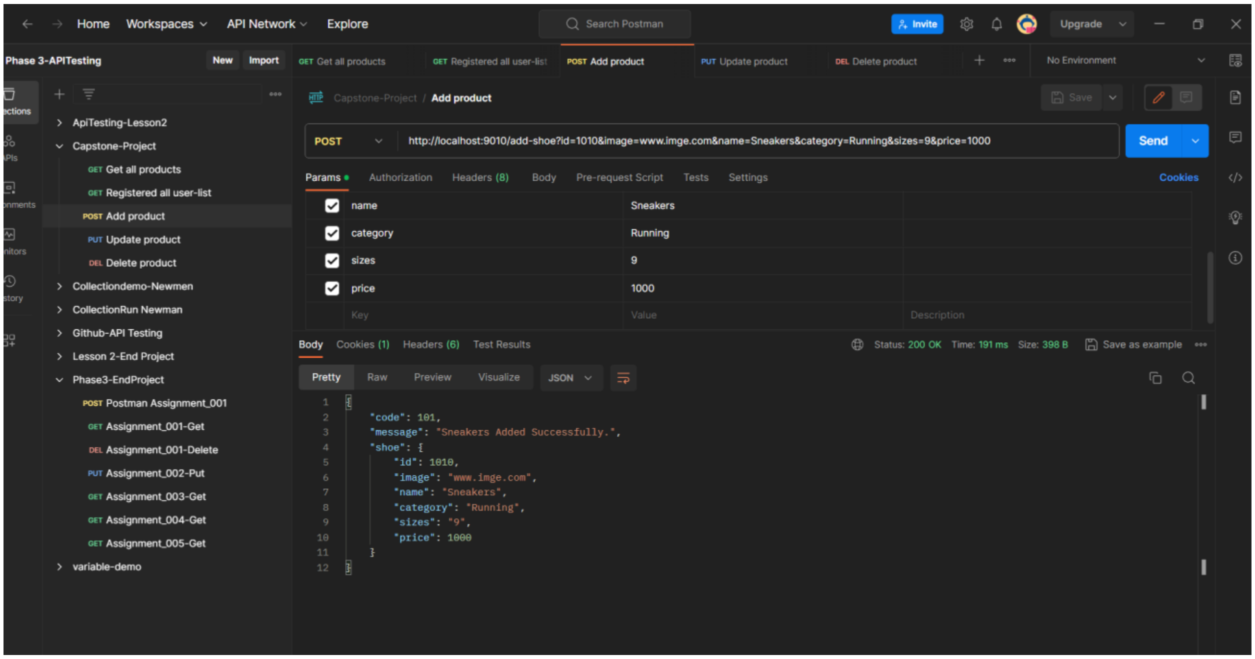
GET http://localhost:9010/get-users

Status: 200 OK Time: 275 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"
        },
        {
            "name": "Sia Sen",
            "email": "sia@example.com",
            "password": "sia123"
        }
    ]
}
```

Add the Products:

we have Added a POST request to Add the product on the list of product with url http://localhost:9010/add-shoe?id=1010&image=www.image.com_url&name=SampleShoe&category=Running&sizes=9&price=1000 and then we have save the request and click on send to get the below response.



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

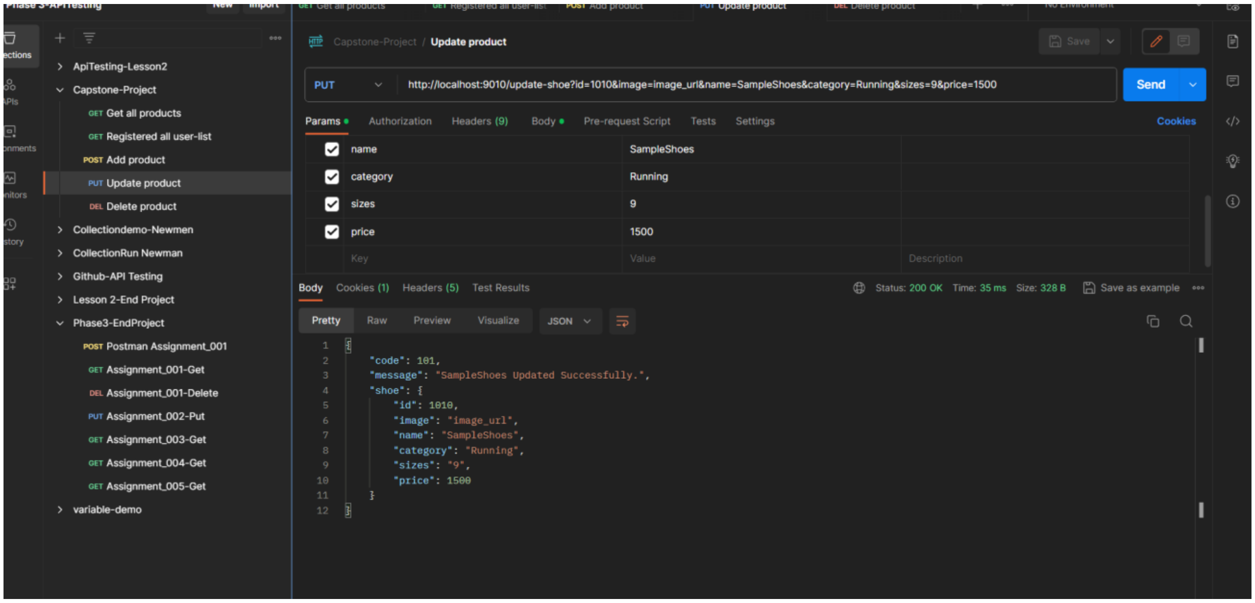
	Key	Value	Description
☑	name	Sneakers	
☑	category	Running	
☑	sizes	9	
☑	price	1000	

Status: 200 OK Time: 191 ms Size: 398 B

```json
{
    "code": 101,
    "message": "Sneakers Added Successfully.",
    "shoe": {
        "id": 1010,
        "image": "www.imge.com",
        "name": "Sneakers",
        "category": "Running",
        "sizes": "9",
        "price": 1000
    }
}
```

Update Products:

Here we have Added a PUT request to update the request which had been already created in the above Add product , however with URL http://localhost:9010/update-shoe?id=1010&image=www.image.com_url&name=SampleShoe&category=Running&sizes=9&price=1000



Capstone-Project / Update product

PUT http://localhost:9010/update-shoe?id=1010&image=image_url&name=SampleShoes&category=Running&sizes=9&price=1500

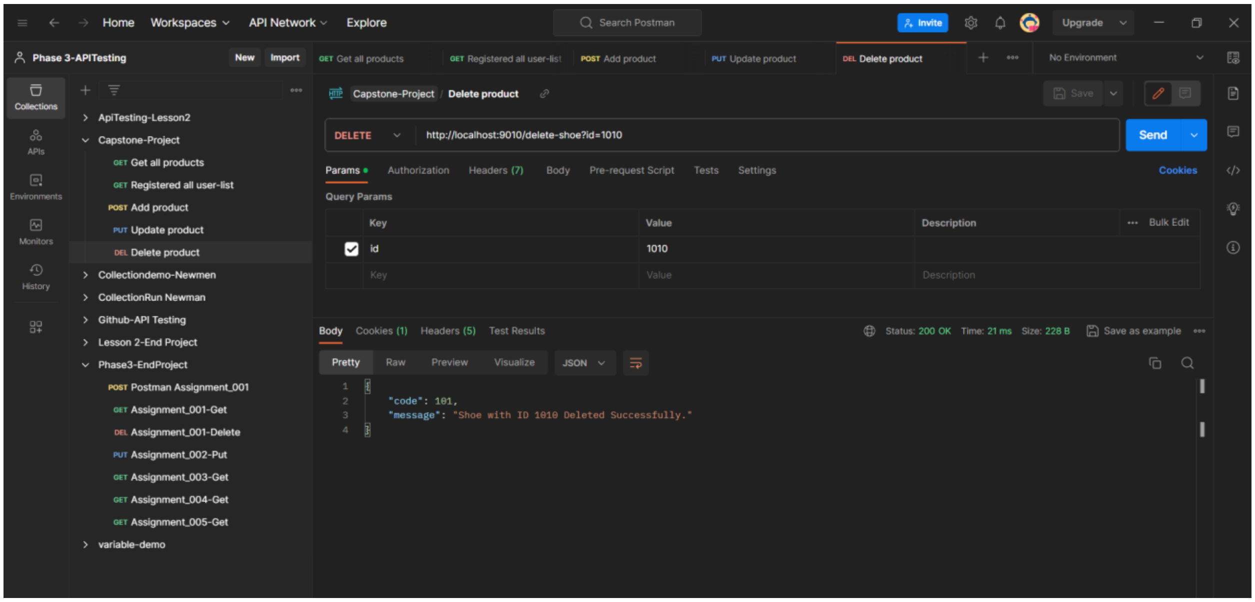
	Key	Value	Description
☑	name	SampleShoes	
☑	category	Running	
☑	sizes	9	
☑	price	1500	

Status: 200 OK Time: 35 ms Size: 328 B

```
{
    "code": 101,
    "message": "SampleShoes Updated Successfully.",
    "shoe": {
        "id": 1010,
        "image": "image_url",
        "name": "SampleShoes",
        "category": "Running",
        "sizes": "9",
        "price": 1500
    }
}
```

Delete Product

Here we are deleting the product which we have create on GET request with url http://localhost:9010/delete-shoe?id=1010



Capstone-Project / Delete product

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

Query Params

	Key	Value	Description
☑	id	1010	

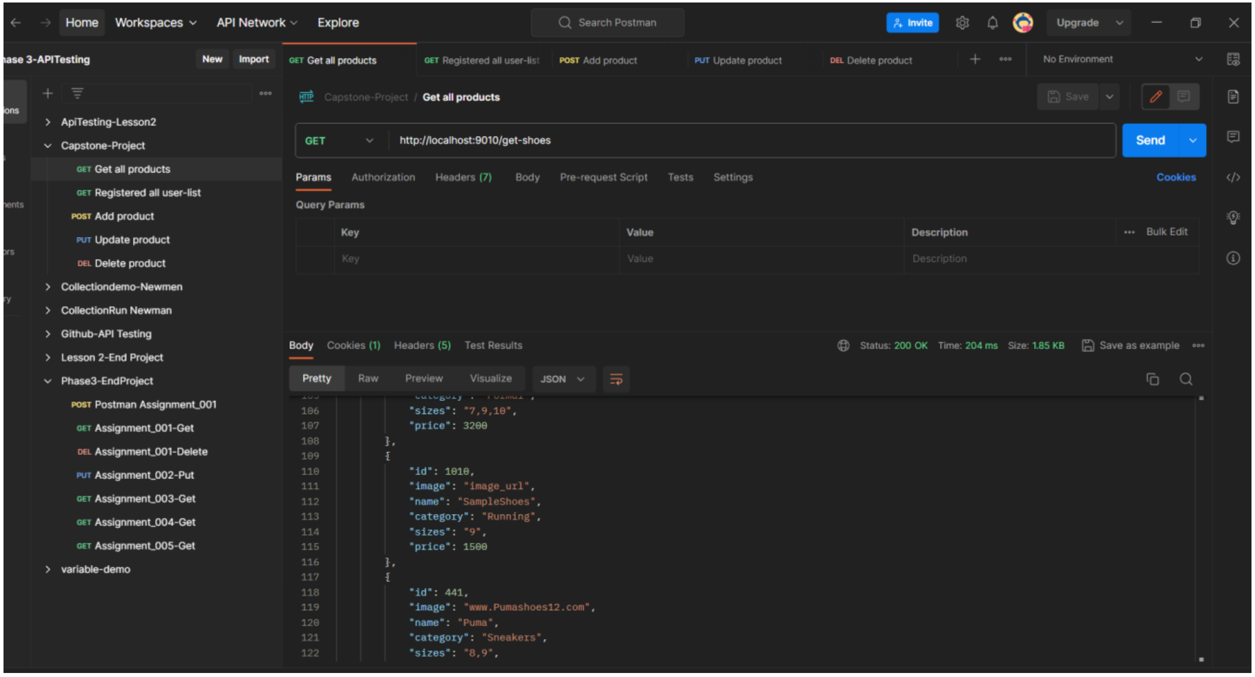
Status: 200 OK Time: 21 ms Size: 228 B

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

Therefore, for the Above Delete scenario I have found an issue which is stated below:

Bug : Upon executing deletion request for the ID =”1010” as shown above the product is not deleting from the all product list, However that needs to be fixed by the developer.

Eventually after successful deletion of product with ID 1010 , the product is yet vnot deleted in All product list:



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

Status: 200 OK Time: 204 ms Size: 1.85 KB

```
            "sizes": "7,9,10",
            "price": 3200
        },
        {
            "id": 1010,
            "image": "image_url",
            "name": "SampleShoes",
            "category": "Running",
            "sizes": "9",
            "price": 1500
        },
        {
            "id": 441,
            "image": "www.Pumashoes12.com",
            "name": "Puma",
            "category": "Sneakers",
            "sizes": "8,9",
```

Github URL:

https://github.com/DikshanshSh/Java-fsd/tree/main/Capstone-Project%2001