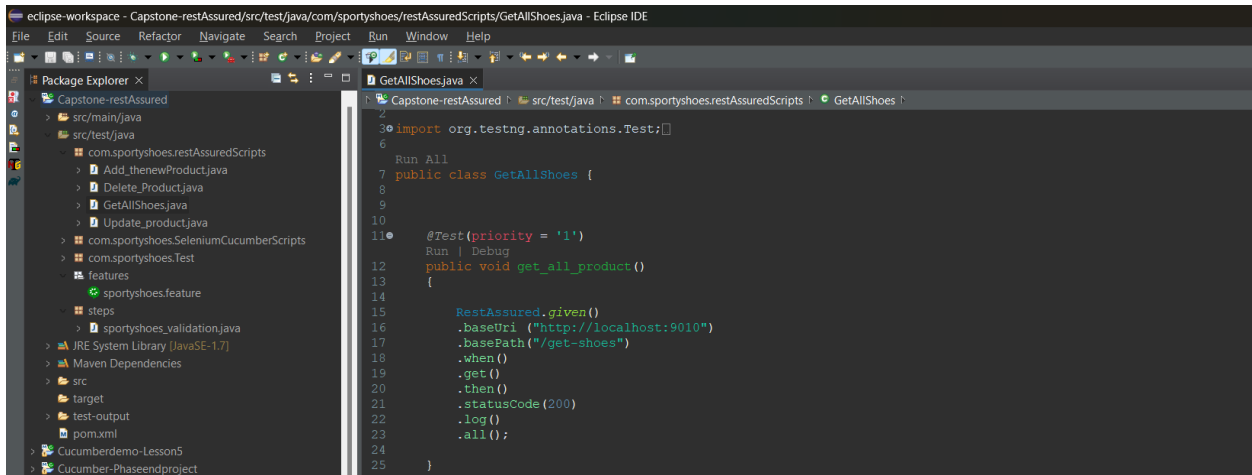


Capstone-Project: Create a Testing Framework for Sporty Shoes Website

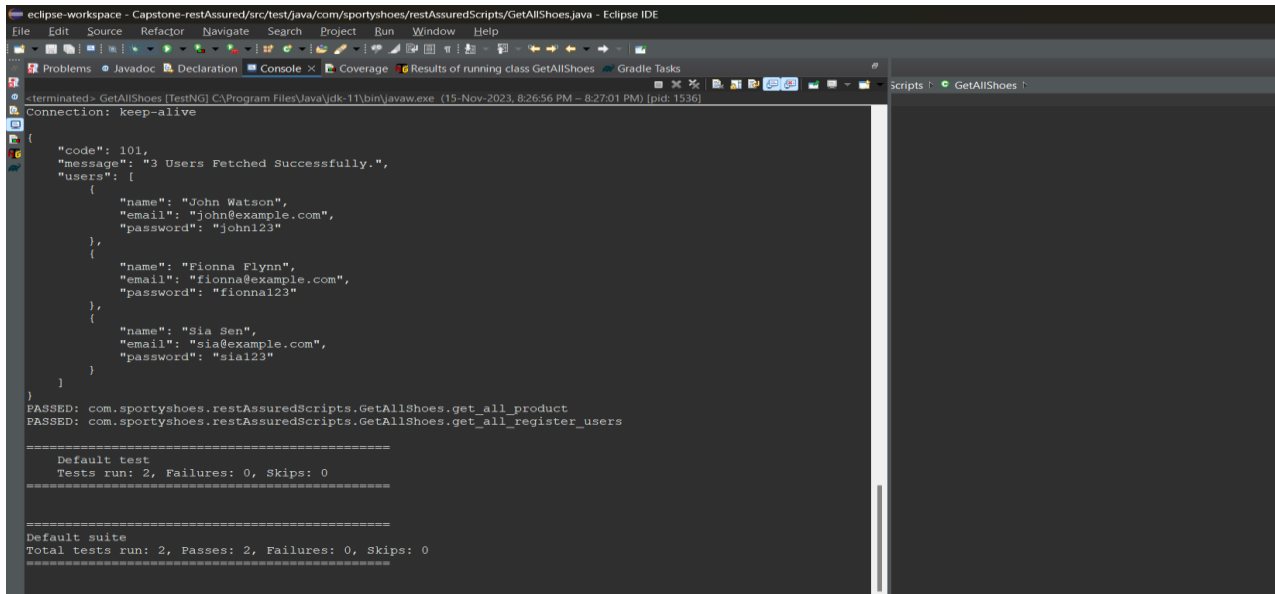
Screenshots:-

1. Automate the below API endpoints using Rest-Assured

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



Output response:



- Retrieving the list of all registered users:

```

=====
eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/restAssuredScripts/GetAllShoes.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
Capstone-restAssured
├── src/main/java
├── src/test/java
│   ├── com.sportyshoes.restAssuredScripts
│   │   ├── Add_theNewProduct.java
│   │   ├── Delete_Product.java
│   │   ├── GetAllShoes.java
│   │   └── Update_product.java
│   ├── com.sportyshoes.SeleniumCucumberScripts
│   ├── com.sportyshoes.Test
│   ├── features
│   │   └── sportyshoes.feature
│   ├── steps
│   │   └── sportyshoes_validation.java
│   ├── JRE System Library [JavaSE-1.7]
│   ├── Maven Dependencies
│   ├── src
│   ├── target
│   ├── test-output
│   └── pom.xml
├── Cucumberdemo-Lesson5
├── Cucumber-Phaseendproject
├── Javaprogram1
├── JmeterUnitsamplerdemo
├── Junit-Phase2
├── Lesson3-TDD-framework
├── lib
├── NinjaDemo-POMFramework
├── Phase2-EndProject
├── Phase2-GradleProject
├── RearAssuredDemo
│   ├── src/test/java
│   ├── src/main/resource
│   ├── JRE System Library [JavaSE-1.7]
│   ├── Maven Dependencies
│   ├── resources
│   └── src
└── src

GetAllShoes.java
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40
41
42

import org.testng.annotations.Test;

public class GetAllShoes {

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

    @Test(priority = '2')
    public void get_all_register_users ()
    {
        RestAssured.given()
            .baseUrl("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 Coverage Results of running class GetAllShoes Gradle Tasks

[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

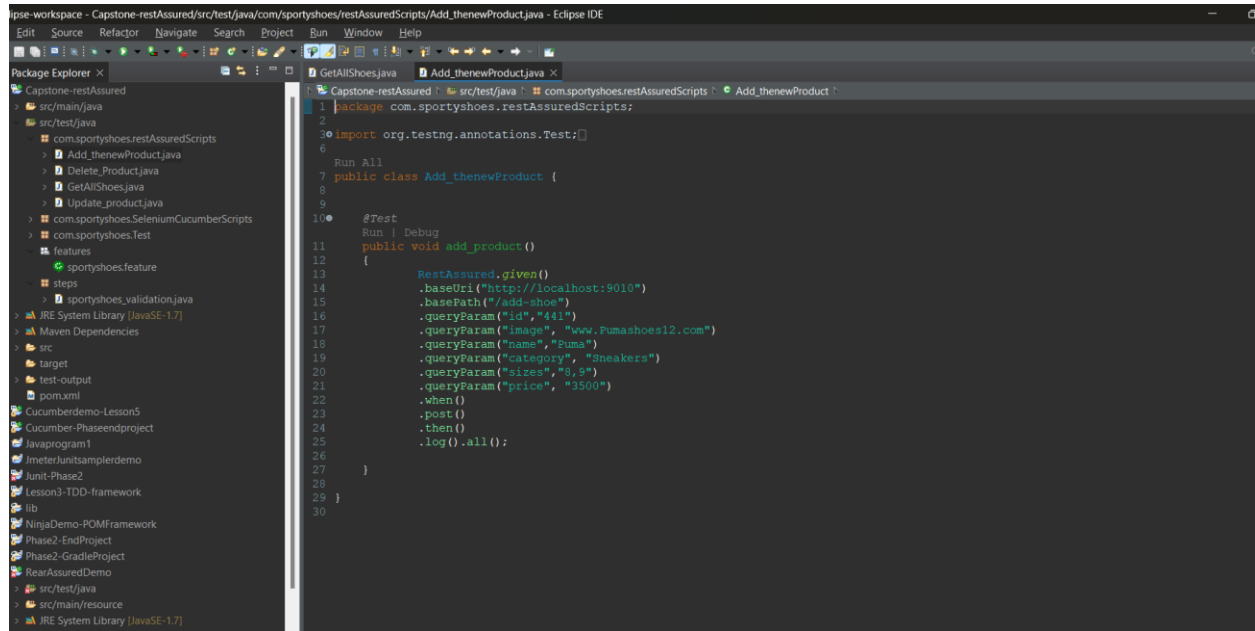
=====
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0

```

=====

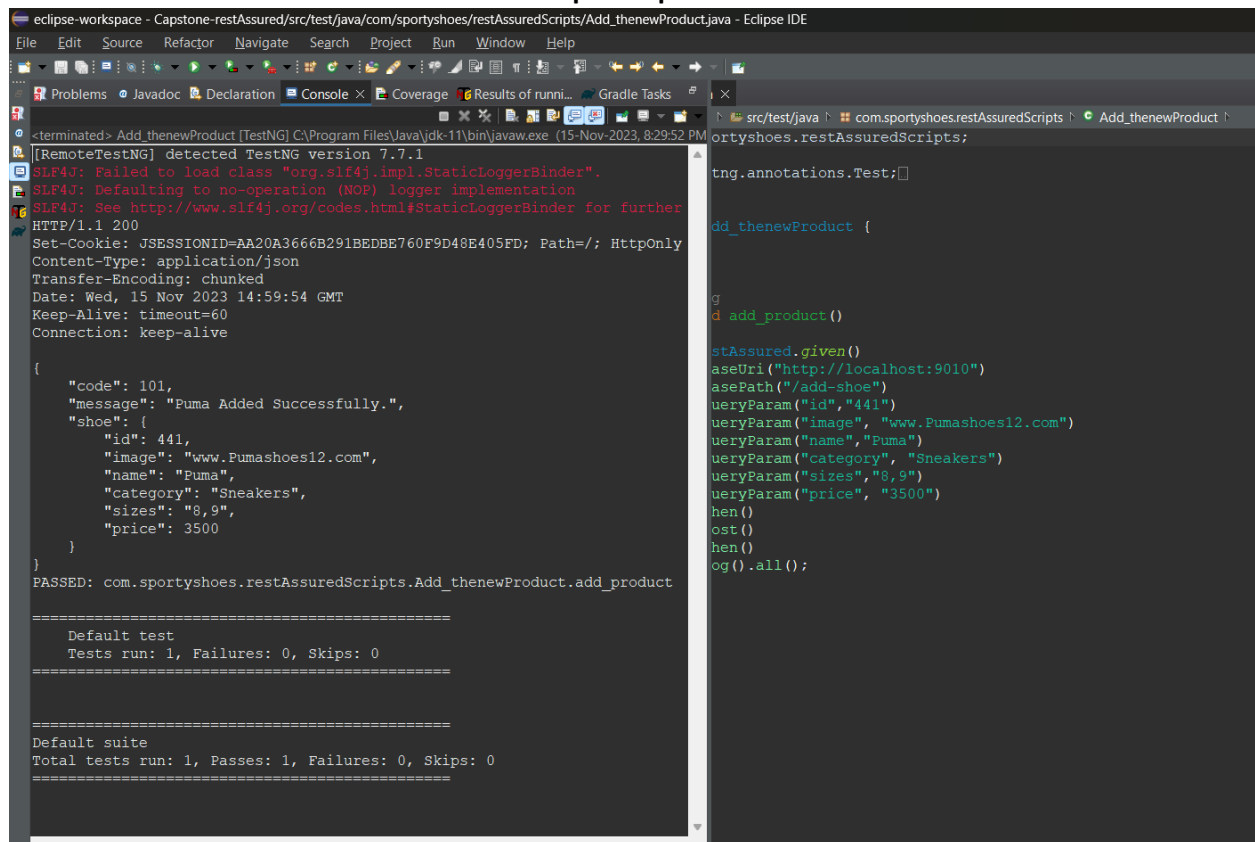
■ Add the Products:

=====



```
1 package com.sportyshoes.restAssuredScripts;
2
3 import org.testng.annotations.Test;
4
5
6
7 public class Add_theNewProduct {
8
9
10
11     @Test
12     public void add_product()
13     {
14         RestAssured.given()
15             .baseUri("http://localhost:9010")
16             .basePath("/add-shoe")
17             .queryParams("id", "441")
18             .queryParams("image", "www.Pumashoes12.com")
19             .queryParams("name", "Puma")
20             .queryParams("category", "Sneakers")
21             .queryParams("sizes", "8,9")
22             .queryParams("price", "3500")
23             .when()
24             .post()
25             .then()
26             .log().all();
27     }
28
29 }
30
```

Output response:



```
<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 details.
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
=====
```

=====

▪ Update the products:

```
=====
Capstone-restAssured/src/test/java/com/sportyshoes/restAssuredScripts/Update_product.java - Eclipse IDE
Refactor  Navigate  Search  Project  Run  Window  Help

GetAllShoes.java  Add_theNewProduct.java  Update_product.java X

Capstone-restAssured  src/test/java  com.sportyshoes.restAssuredScripts  Update_product

package com.sportyshoes.restAssuredScripts;

import org.testng.annotations.Test;

Run All
public class Update_product {

@Test
Run | Debug
public void update_the_product()
{

    RestAssured.given()
        .baseUrl("http://localhost:9010")
        .basePath("/update-shoe")
        .queryParams("id", "441")
        .queryParams("image", "www.image08.com")
        .queryParams("name", "Red Chief")
        .queryParams("category", "Formal")
        .queryParams("sizes", "7,9,10")
        .queryParams("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 X  Coverage  Results of runni...  Gradle Tasks  Update_product.java X

src/test/java  com.sportyshoes.restAssuredScripts  Update_produ

ortyshoes.restAssuredScripts;

ng.annotations.Test;[]

update_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();

<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 (NOE) 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
=====
```

=====

- Delete the product:

=====

The screenshot shows the Eclipse IDE interface. On the left, the Package Explorer displays the project structure for 'Capstone-restAssured'. The 'Delete_Product.java' file is selected under the 'com.sportyshoes.restAssuredScripts' package. The main editor window shows the code for 'Delete_Product.java'. The code is as follows:

```
1 package com.sportyshoes.restAssuredScripts;
2
3 import org.testng.annotations.Test;
4
5
6
7 public class Delete_Product {
8
9     @Test(priority='3')
10    public void delete_product()
11    {
12
13        RestAssured.given()
14            .baseUrl("http://localhost:9010")
15            .basePath("/delete-shoe")
16            .queryParam("id", "441")
17            .when().delete()
18            .then().log().all();
19    }
20 }
21
22
23
24
```

Output response:

The screenshot shows the Eclipse IDE interface with the console window open. The console output displays the results of the test execution. The output is as follows:

```
<terminated> Delete_Product [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe (15-Nov-2023, 8:31:42 PM - 8:31:42 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 details.
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
=====
```

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

TestBase.java class:

```
Capstone-restAssured/src/test/java/com/sportyshoes/SeleniumCucumberScripts/TestBase.java - Eclipse IDE
Refactor  Navigate  Search  Project  Run  Window  Help

TestBase.java
1 package com.sportyshoes.SeleniumCucumberScripts;
2
3 import org.openqa.selenium.WebDriver;
4
5
6
7 public class TestBase {
8
9     public static WebDriver driver;
10
11     public static void OpenBrowser(String browser)
12     {
13         if(browser == "Chrome")
14         {
15             driver = new ChromeDriver();
16         }
17
18         if(browser == "FireFox")
19         {
20             driver = new FirefoxDriver();
21         }
22
23         driver.manage().window().maximize();
24         driver.manage().deleteAllCookies();
25         driver.get("http://localhost:9010/");
26     }
27
28
29     public static void closebrowser()
30     {
31         driver.close();
32     }
33 }
34
35
36
37
```

- Selenium script for login page:

Loginpage.java class:

```
=====
Eclipse IDE
Package Explorer: Capstone-restAssured > src/main/java > com.sportyshoes.restAssuredScripts > Loginpagetest.java
TestBase.java | Loginpagetest.java
1 package com.sportyshoes.SeleniumCucumberScripts;
2
3 import org.openqa.selenium.WebDriver;
4
5 public class Loginpagetest {
6
7     @FindBy(xpath="//input[@id='email']")
8     WebElement loginEmail;
9
10    @FindBy(xpath="//input[@id='password']")
11    WebElement loginpassword;
12
13    @FindBy(xpath="//button[@type='submit']")
14    WebElement loginbtn;
15
16    @FindBy(linkText="Cart")
17    WebElement clickCart;
18
19    public Loginpagetest(WebDriver driver) {
20        PageFactory.initElements(driver, this);
21    }
22
23    public void user_login() {
24        loginEmail.sendKeys("dikshansh067@gmail.com");
25        loginpassword.sendKeys("dikshansh123");
26        loginbtn.click();
27    }
28
29    public void click_cart() {
30        clickCart.click();
31    }
32
33 }
=====
```

Loginpagetest2.java

```
=====
Eclipse IDE
Package Explorer: Capstone-restAssured > src/test/java/com/sportyshoes/test/Loginpagetest2.java
TestBase.java | Loginpagetest.java | Loginpagetest2.java
1 package com.sportyshoes.Test;
2
3 import org.testng.Assert;
4
5 public class Loginpagetest2 extends TestBase {
6
7     HomepageTest hp;
8     Registerpagetest rp;
9     Loginpagetest lp;
10
11    @BeforeTest
12    public void start_browser() {
13        OpenBrowser("Chrome");
14        hp = new HomepageTest(driver);
15        rp = new Registerpagetest(driver);
16        lp = new Loginpagetest(driver);
17    }
18
19    @Test(priority='1')
20    public void test_login() {
21        lp.user_login();
22    }
23
24    @Test(priority='2')
25    public void test_getTitle_page() {
26        String expected = "http://localhost:9010/login";
27        String Actual = hp.getURL_page();
28        Assert.assertEquals(Actual, expected);
29    }
30
31    @Test(priority='3')
32    public void test_validate_registration_text() {
33    }
34 }
=====
```

Output Response:

```
eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/Test/Loginpagetest2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

[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 8:33:13 PM org.openqa.selenium.devtools.CdpVersionFinder find
WARNING: Unable to find an exact match for CDP version 119, so returning 118
PASSED: com.sportyshoes.Test.Loginpagetest2.test_getTitle_page
PASSED: com.sportyshoes.Test.Loginpagetest2.test_click_cart
PASSED: com.sportyshoes.Test.Loginpagetest2.test_validate_registration_Text
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
=====

Loginpagetest2 extends TestBase {
    WebDriver driver;
    PageFactory pageFactory;

    @Before
    public void start_browser() {
        driver = new ChromeDriver();
        pageFactory.initElements(driver, this);
    }

    @Test
    public void test_getTitle_page() {
        String title = driver.getTitle();
        assertEquals("Sporty Shoes", title);
    }

    @Test
    public void test_click_cart() {
        driver.findElement(By.linkText("Cart")).click();
    }

    @Test
    public void test_validate_registration_Text() {
        driver.findElement(By.id("register")).click();
        String register_url = driver.getCurrentUrl();
        assertEquals("http://localhost:9010/login", register_url);
    }

    @Test
    public void test_login() {
        driver.findElement(By.id("login")).click();
        String login_url = driver.getCurrentUrl();
        assertEquals("http://localhost:9010/login", login_url);
    }
}
```

Registrationpage.java class:

```
eclipse-workspace - Capstone-restAssured/src/test/java/com/sportyshoes/SeleniumCucumberScripts/Registerpagetest.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer
Capstone-restAssured
  src/main/java
  src/test/java
    com.sportyshoes.restAssuredScripts
    com.sportyshoes.SeleniumCucumberScripts
      Addtocarttest.java
      Homepagepagetest.java
      Loginpagetest.java
      Orderpagetest.java
      Registerpagetest.java
      TestBase.java
    com.sportyshoes.Test
      Addtocarttest2.java
      Homepagepagetest2.java
      Loginpagetest2.java
      Orderpagetest2.java
      Registerpagetest2.java
    features
    steps
  JRE System Library [JavaSE-1.7]
  Maven Dependencies
  src
  target
  test-output
  pom.xml
  CucumbeDemo-Lesson5
  Cucumbe-Phaseendproject
  javaProgram1
  JmeterJunitSamplerdemo
  Junit-Phase2
  Lesson3-TDD-framework
  lib
  NinjaDemo-POMframework
  Phase2-EndProject
  Phase2-GradleProject
  RearAssuredDemo
  src/test/java

Registerpagetest.java
1 package com.sportyshoes.SeleniumCucumberScripts;
2
3 import org.openqa.selenium.WebDriver;
4
5 public class Registerpagetest extends TestBase {
6
7     @FindBy(xpath="//input[@id='name']")
8     WebElement registername;
9
10    @FindBy(xpath="//input[@id='email']")
11    WebElement registeremail;
12
13    @FindBy(xpath="//input[@id='password']")
14    WebElement registerpassword;
15
16    @FindBy(xpath="//button[@type='submit']")
17    WebElement registerBtn;
18
19    @FindBy(xpath="//div[@class='mt-4 p-5 bg-primary text-white rounded']/descendant::p[3]")
20    WebElement userText;
21
22    public Registerpagetest(WebDriver driver) {
23        PageFactory.initElements(driver, this);
24    }
25
26    public void register_user() {
27        {
28            registername.sendKeys("Dikshansh");
29            registeremail.sendKeys("dikshansh067@gmail.com");
30            registerpassword.sendKeys("dikshansh8123");
31            registerBtn.click();
32        }
33    }
34
35    public String validate_registration_URL() {
36        {
37            String register_url = driver.getCurrentUrl();
38            return register_url;
39        }
40    }
41
42    public String validate_registration_Text() {
43    }
44
45 }
```

Registrationpagetest.java class:

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

Package Explorer

- Capstone-restAssured
 - src/main/java
 - src/test/java
 - com.sportyshoes.seleniumCucumberScripts
 - Addtocarttest.java
 - Homepagetest.java
 - Loginpagetest.java
 - Orderpagetest.java
 - Registerpagetest.java
 - TestBase.java
 - com.sportyshoes.Test
 - Addtocarttest2.java
 - Homepagetest2.java
 - Loginpagetest2.java
 - Orderpagetest2.java
 - Registerpagetest2.java
 - features
 - steps
- JRE System Library [JDKSE-1.7]
- Maven Dependencies
 - src
 - target
 - test-output
 - pom.xml
- Cucumberdemo-Lesson5
- Cucumber-PhaseendProject
- Javaprogram1
- Jmeterkunitssamplerdemo
- JUnit-Phase2
- Lesson3-TDD-framework
- lib
- NinjaDemo-POMframework
- Phase2-EndProject
- Phase2-GradleProject
- RearAssuredDemo
 - src/test/java

```
1 package com.sportyshoes.Test;
2
3 import static org.testng.Assert.assertEquals;
4
5 Run All
6
7 public class Registerpagetest2 extends TestBase {
8
9     Homepagetest hp;
10    Registerpagetest rp;
11
12    @BeforeTest
13    public void start_browser()
14    {
15        OpenBrowser("Chrome");
16        hp = new Homepagetest(driver);
17        rp = new Registerpagetest(driver);
18    }
19
20    @Test(priority='1')
21    Run | Debug
22    public void test_click_register_link() throws InterruptedException
23    {
24        Thread.sleep(1500);
25        hp.click_register_link();
26    }
27
28    @Test(priority='2')
29    Run | Debug
30    public void test_getTitle_page()
31    {
32        String expected = "http://localhost:9010/register";
33        String Actual = hp.getURL_page();
34        Assert.assertEquals(Actual, expected);
35    }
36
37    @Test(priority='3')
38    Run | Debug
39    public void Test_register_user()
40    {
41        rp.register_user();
42    }
43
44    public void test_register_user()
45    {
46        rp.register_user();
47    }
48
49    @Test(priority='4')
50    Run | Debug
51    public void Test_validate_registration_URL()
52    {
53        String expected = "http://localhost:9010/register-user";
54        String Actual = rp.validate_registration_URL();
55        assertEquals(Actual, expected);
56    }
57
58    @Test(priority='5')
59    Run | Debug
60    public void Test_validate_registration_Text()
61    {
62        String expected = "Hello Dikshansh !";
63        String actualText = rp.validate_registration_Text();
64        Assert.assertEquals(actualText, expected);
65    }
66 }
67
```

```
44    public void test_register_user()
45    {
46        rp.register_user();
47    }
48
49    @Test(priority='4')
50    Run | Debug
51    public void Test_validate_registration_URL()
52    {
53        String expected = "http://localhost:9010/register-user";
54        String Actual = rp.validate_registration_URL();
55        assertEquals(Actual, expected);
56    }
57
58    @Test(priority='5')
59    Run | Debug
60    public void Test_validate_registration_Text()
61    {
62        String expected = "Hello Dikshansh !";
63        String actualText = rp.validate_registration_Text();
64        Assert.assertEquals(actualText, expected);
65    }
66 }
67
```

Output Response:

The image displays a web browser window at localhost:9010/register-user. The page features a blue header with navigation links (Cart, Orders, Profile, Logout) and a main section titled 'Sporty Shoes' powered by Simplilearn. It includes a welcome message for 'Dikshansh' and a promotional banner for 'RUNNING SHOES' with a 30% OFF discount and an image of sneakers.

Below the browser window, the Eclipse IDE is shown with the following content:

```
eclipse-workspace - Capstone-testAssured/src/test/java/com/sportyshoes/Test/Registerpagetest2.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Problems Javadoc Declaration Console Coverage Results of run... Gradle Tasks
[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 details.
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 118
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
=====

src/test/java/com/sportyshoes/Test/Registerpagetest2.java
Registerpagetest2
Registerpagetest2 extends TestBase{
    private WebDriver driver;
    private String url = "http://localhost:9010/register";

    @Before
    public void setUp() throws Exception {
        driver = new ChromeDriver();
        driver.get(url);
    }

    @Test
    public void validate_registration() throws Exception {
        // ...
    }

    @Test
    public void test_getTitle_page() throws Exception {
        // ...
    }

    @Test
    public void test_validate_registration() throws Exception {
        // ...
    }

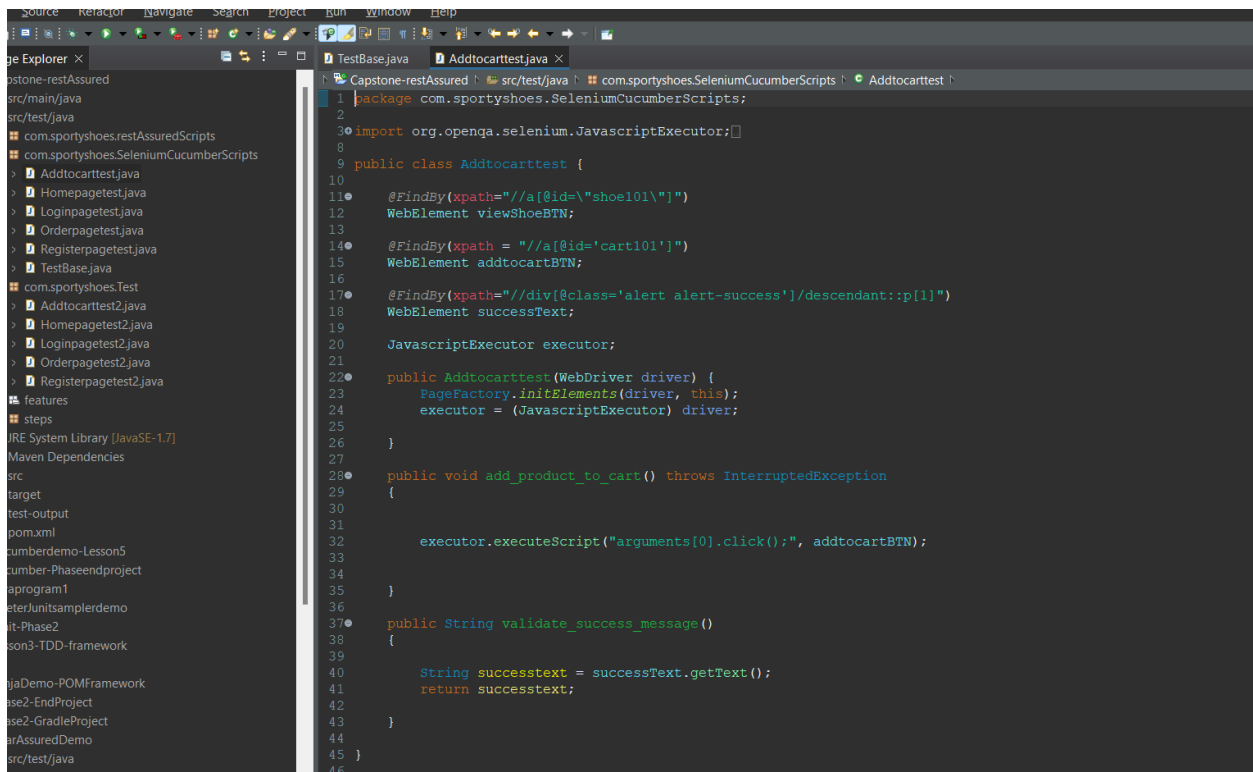
    @Test
    public void test_click_register_link() throws Exception {
        // ...
    }

    @Test
    public void Test_register_user() throws Exception {
        // ...
    }
}
```

=====

Addproducttocart.java class:

=====

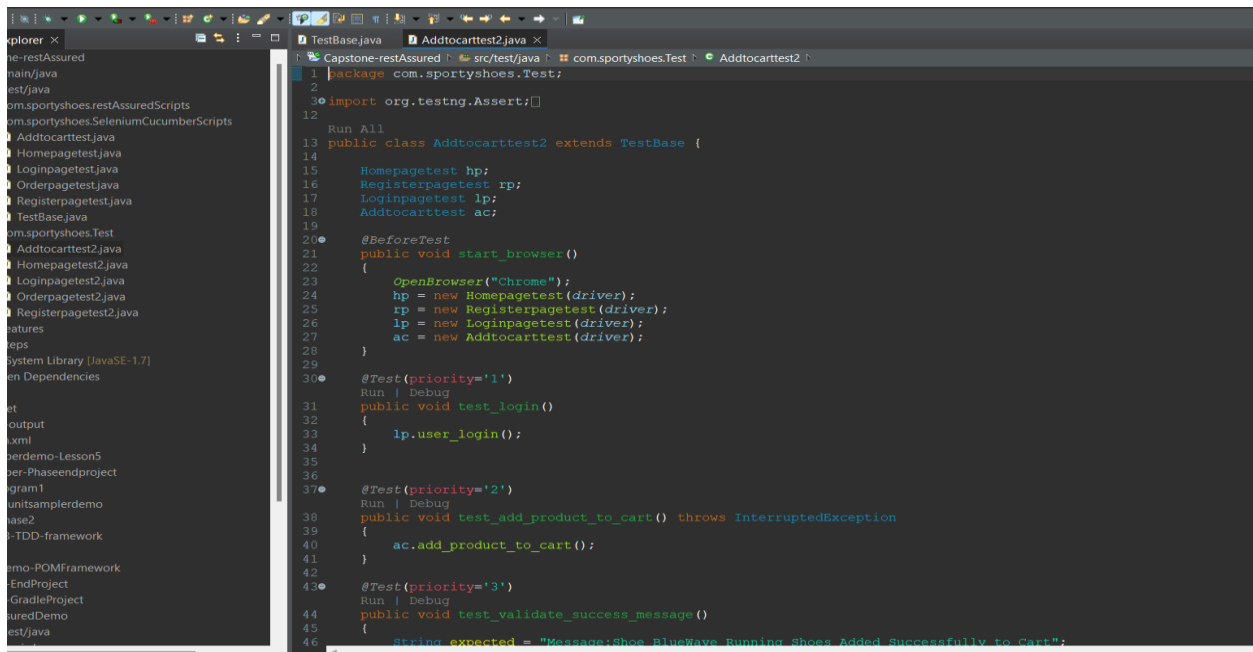


```
1 package com.sportyshoes.SeleniumCucumberScripts;
2
3 import org.openqa.selenium.JavascriptExecutor;
4
5 public class Addtocarttest {
6
7     @FindBy(xpath="//a[@id='shoe101']")
8     WebElement viewShoeBTN;
9
10    @FindBy(xpath = "//a[@id='cart101']")
11    WebElement addtocartBTN;
12
13    @FindBy(xpath="//div[@class='alert alert-success']/descendant::p[1]")
14    WebElement successText;
15
16    JavascriptExecutor executor;
17
18    public Addtocarttest(WebDriver driver) {
19        PageFactory.initElements(driver, this);
20        executor = (JavascriptExecutor) driver;
21    }
22
23    public void add_product_to_cart() throws InterruptedException
24    {
25
26        executor.executeScript("arguments[0].click();", addtocartBTN);
27
28    }
29
30    public String validate_success_message()
31    {
32
33        String successtext = successText.getText();
34        return successtext;
35    }
36
37 }
```

=====

Addproducttocarttest.java class:

=====



```
1 package com.sportyshoes.Test;
2
3 import org.testng.Assert;
4
5 public class Addtocarttest2 extends TestBase {
6
7     HomepageTest hp;
8     Registerpagetest rp;
9     Loginpagetest lp;
10    Addtocarttest ac;
11
12    @BeforeTest
13    public void start_browser()
14    {
15        OpenBrowser("Chrome");
16        hp = new HomepageTest(driver);
17        rp = new Registerpagetest(driver);
18        lp = new Loginpagetest(driver);
19        ac = new Addtocarttest(driver);
20    }
21
22    @Test(priority='1')
23    public void test_login()
24    {
25        lp.user_login();
26    }
27
28    @Test(priority='2')
29    public void test_add_product_to_cart() throws InterruptedException
30    {
31        ac.add_product_to_cart();
32    }
33
34    @Test(priority='3')
35    public void test_validate_success_message()
36    {
37        String expected = "Message:Shoe BlueWave Running Shoes Added Successfully to Cart";
38    }
39
40 }
```

```
46         String expected = "Message:Shoe BlueWave Running Shoes Added Successfully to Cart";
47         String actualText= ac.validate_success_message();
48         Assert.assertEquals(actualText, expected);
49     }
50
51     @Test (priority='4')
52     Run | Debug
53     public void closeBrowser()
54     {
55         driver.close();
56     }
57 }
58
59
```

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 X Coverage Results of running class Addtocarttest2 Gradle Tasks
<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 version
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
=====

com.sportyshoes.Test.Addtocarttest2
extends TestBase {

()

;
(driver);
test(driver);
; (driver);
; (driver);

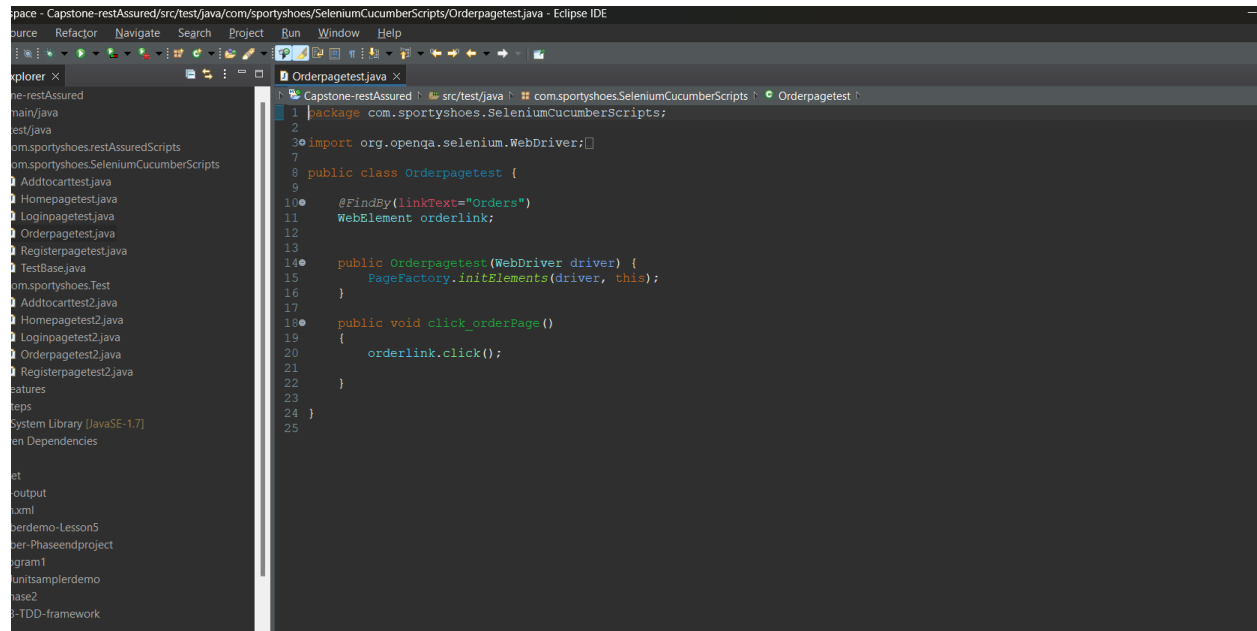
act_to_cart() throws InterruptedException

; () ;
}
```

=====

Orderpage.java class:

=====



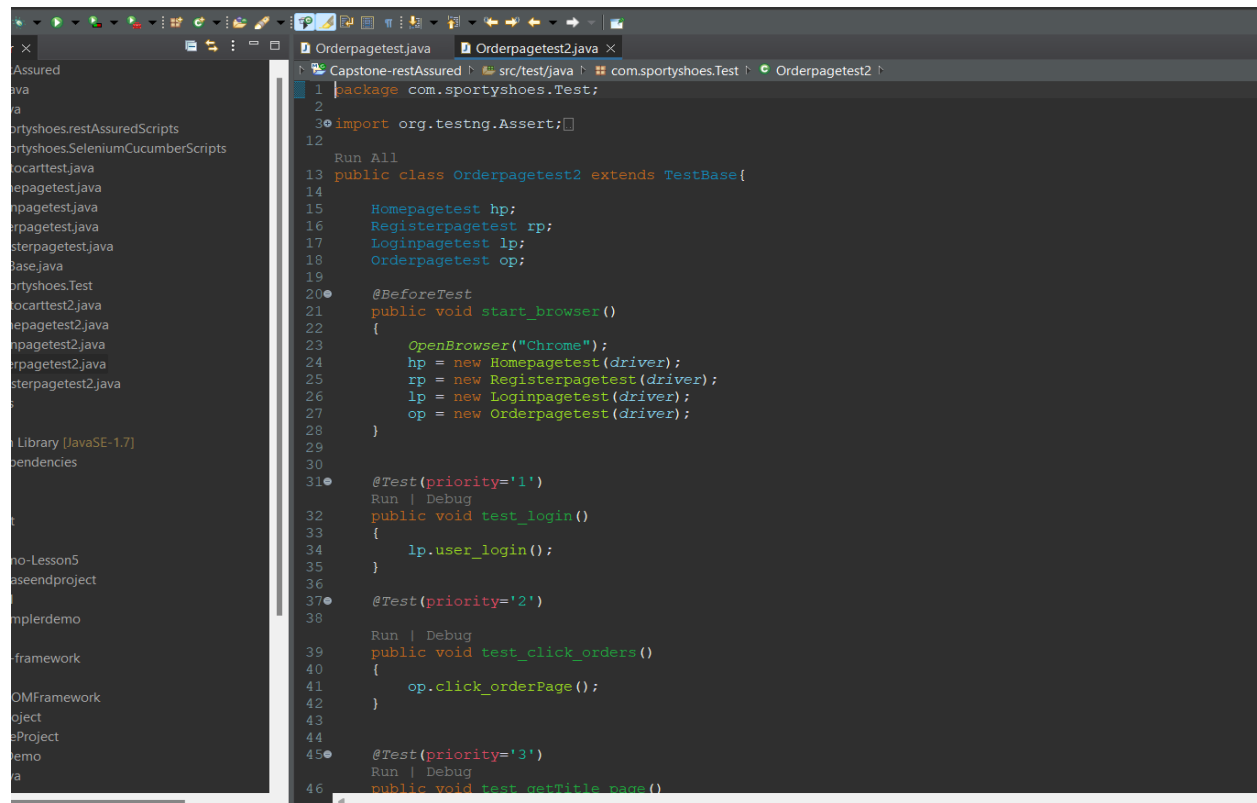
The screenshot shows the Eclipse IDE with the 'Orderpagetest.java' file open. The package is 'com.sportyshoes.SeleniumCucumberScripts'. The class 'Orderpagetest' has a constructor that takes a 'WebDriver driver' and calls 'PageFactory.initElements(driver, this)'. It also has a method 'click_orderPage()' that clicks on a web element 'orderlink' found by the link text 'Orders'.

```
1 package com.sportyshoes.SeleniumCucumberScripts;
2
3 import org.openqa.selenium.WebDriver;
4
5 public class Orderpagetest {
6
7     @FindBy(linkText="Orders")
8     WebElement orderlink;
9
10    public Orderpagetest(WebDriver driver) {
11        PageFactory.initElements(driver, this);
12    }
13
14    public void click_orderPage()
15    {
16        orderlink.click();
17    }
18 }
19
20
21
22
23
24
25
```

=====

Orderpagetest.java class:

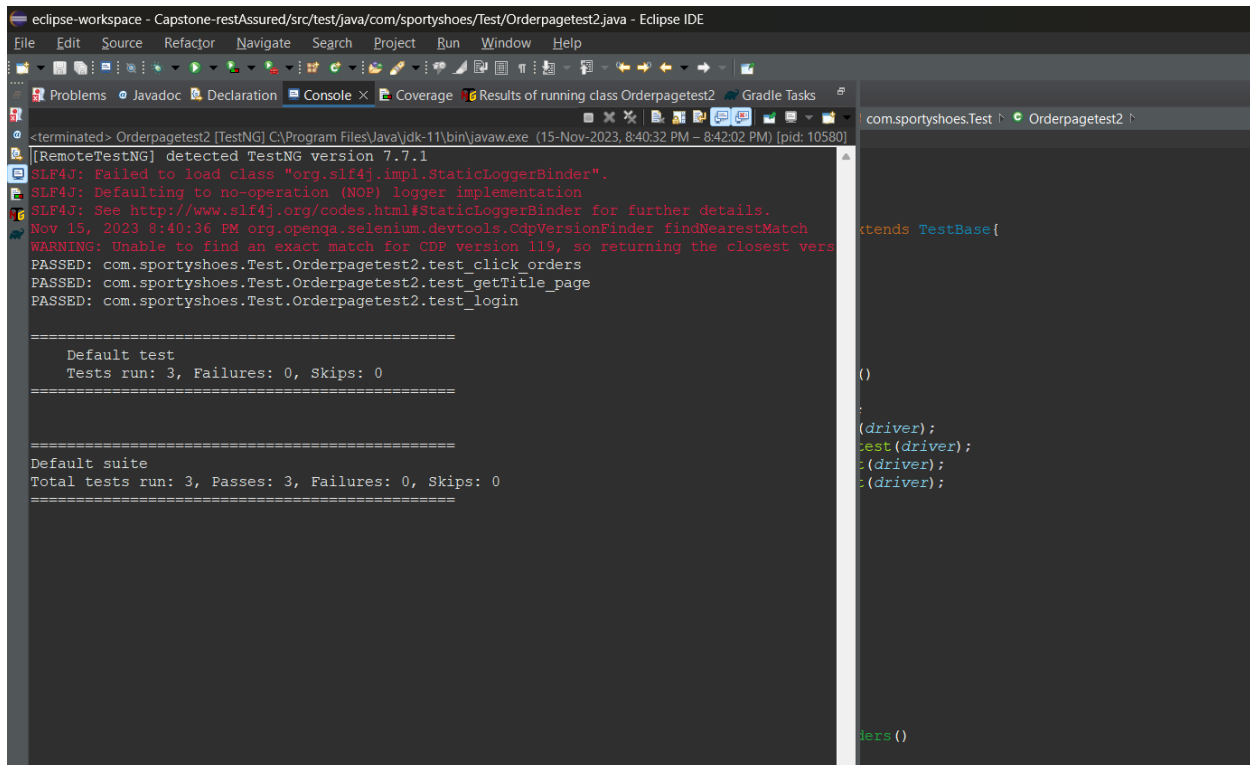
=====



The screenshot shows the Eclipse IDE with the 'Orderpagetest2.java' file open. The package is 'com.sportyshoes.Test'. The class 'Orderpagetest2' extends 'TestBase'. It has a '@BeforeTest' method 'start_browser()' that initializes the WebDriver and creates instances of 'HomepageTest', 'Registerpagetest', 'Loginpagetest', and 'Orderpagetest'. It also has two '@Test' methods: 'test_login()' and 'test_click_orders()'. The 'test_click_orders()' method calls 'click_orderPage()' on the 'Orderpagetest' instance.

```
1 package com.sportyshoes.Test;
2
3 import org.testng.Assert;
4
5 public class Orderpagetest2 extends TestBase{
6
7     HomepageTest hp;
8     Registerpagetest rp;
9     Loginpagetest lp;
10    Orderpagetest op;
11
12    @BeforeTest
13    public void start_browser ()
14    {
15        OpenBrowser("Chrome");
16        hp = new HomepageTest(driver);
17        rp = new Registerpagetest(driver);
18        lp = new Loginpagetest(driver);
19        op = new Orderpagetest(driver);
20    }
21
22    @Test(priority='1')
23    public void test_login ()
24    {
25        lp.user_login();
26    }
27
28    @Test(priority='2')
29    public void test_click_orders ()
30    {
31        op.click_orderPage();
32    }
33
34    @Test(priority='3')
35    public void test_getTitle_page ()
36    {
37    }
38 }
39
40
41
42
43
44
45
46
```

Output:



The screenshot shows the Eclipse IDE interface. The top toolbar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The main editor displays the source code of `com.sportyshoes.Test.Orderpagetest2`, which extends `TestBase` and contains three test methods: `test_click_orders`, `test_getTitle_page`, and `test_login`. The bottom console shows the output of the test run, indicating that all three tests passed successfully. The console output includes the following text:

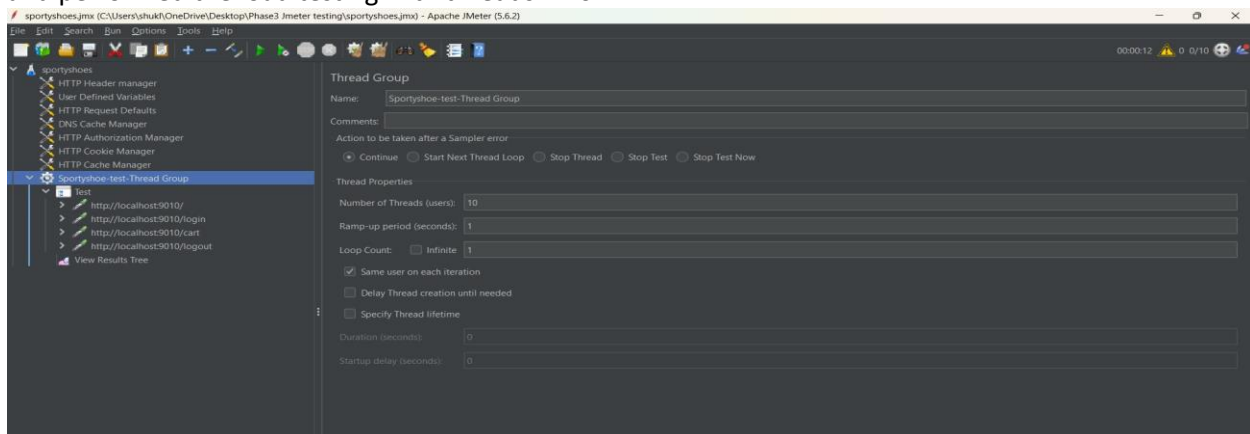
```
<terminated> Orderpagetest2 [TestNG] C:\Program Files\Java\jdk-11\bin\javaw.exe (15-Nov-2023, 8:40:32 PM - 8:42:02 PM) [pid: 10580]
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
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 version 118
PASSED: com.sportyshoes.Test.Orderpagetest2.test_click_orders
PASSED: com.sportyshoes.Test.Orderpagetest2.test_getTitle_page
PASSED: com.sportyshoes.Test.Orderpagetest2.test_login

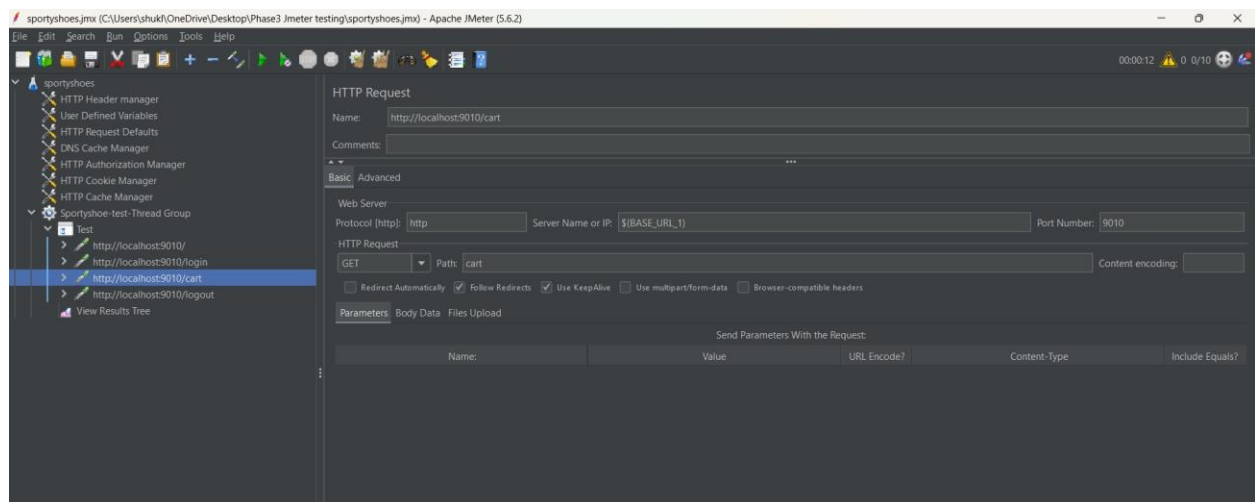
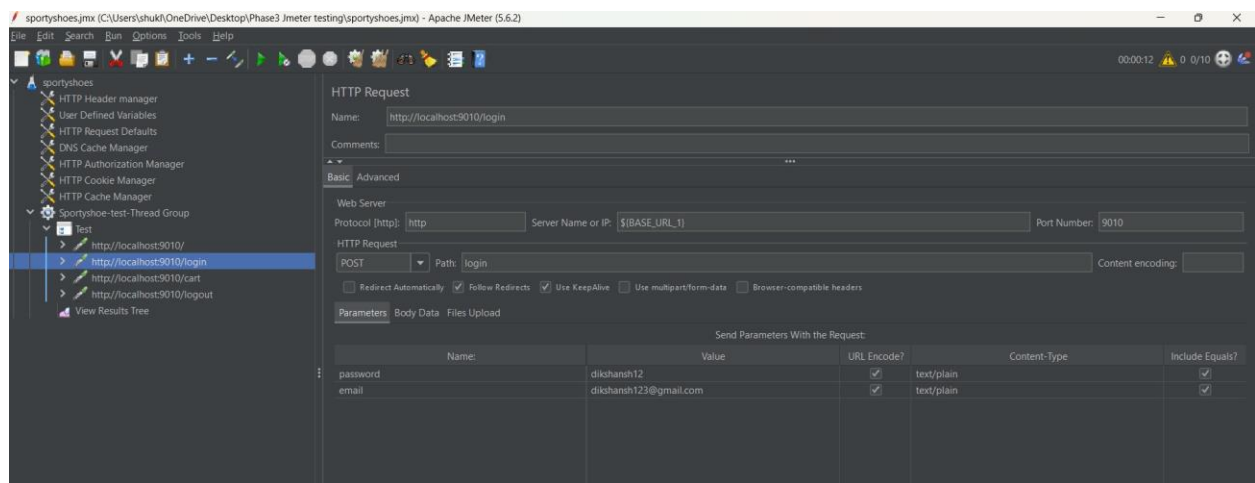
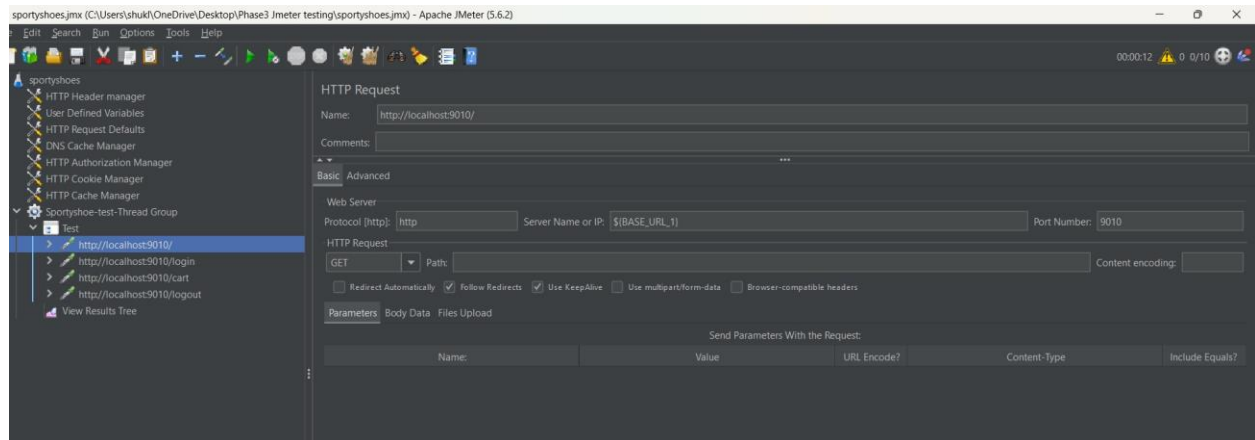
=====
Default test
Tests run: 3, Failures: 0, Skips: 0
=====

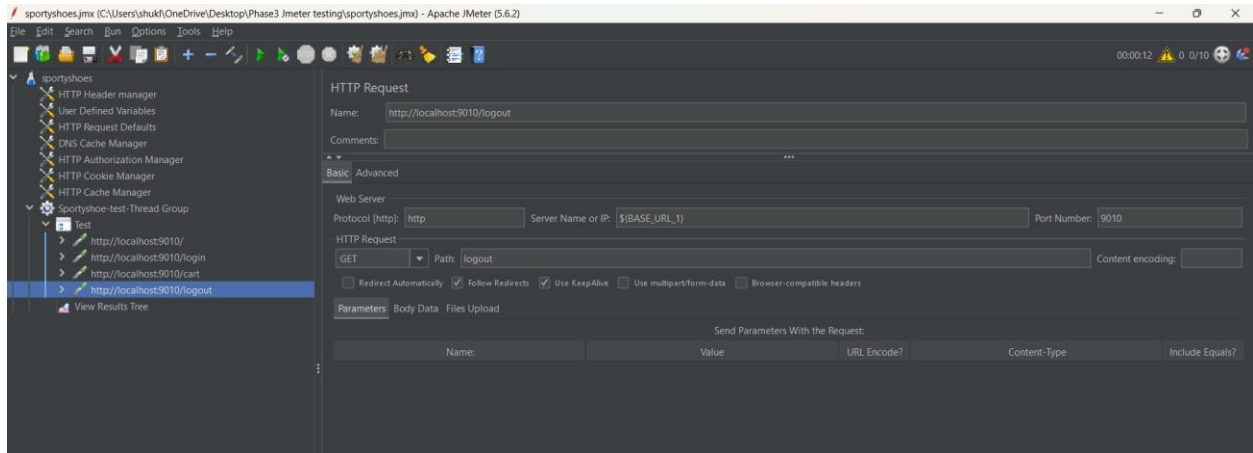
=====
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
=====
```

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

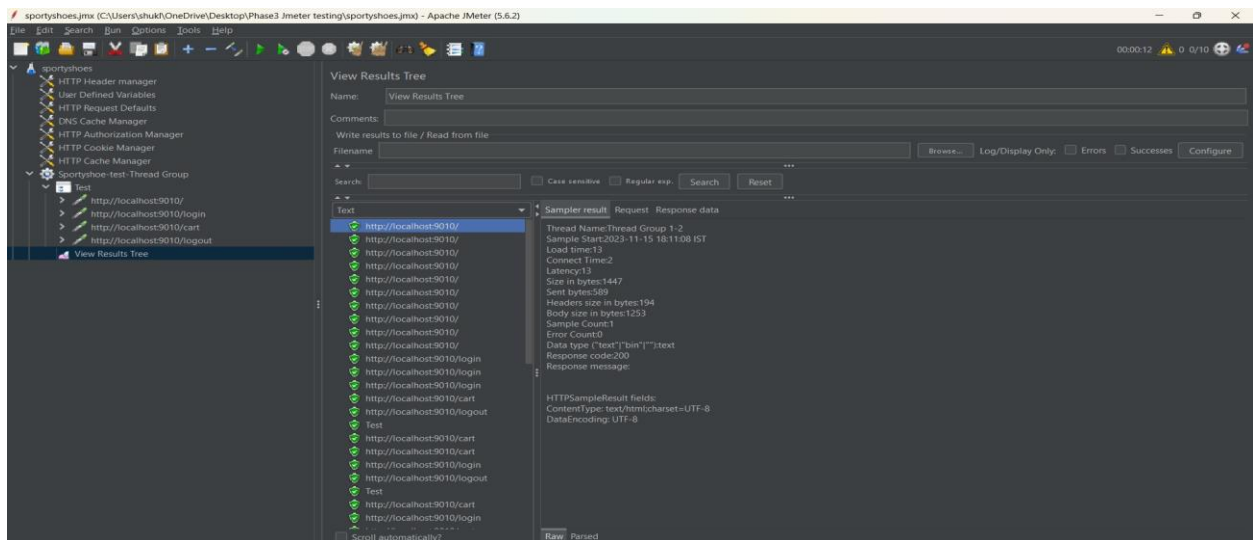
The below are the scripts which had been recorded on <http://localhost:9010/> -> login -> cart -> logout and performed the load testing with threads = 10







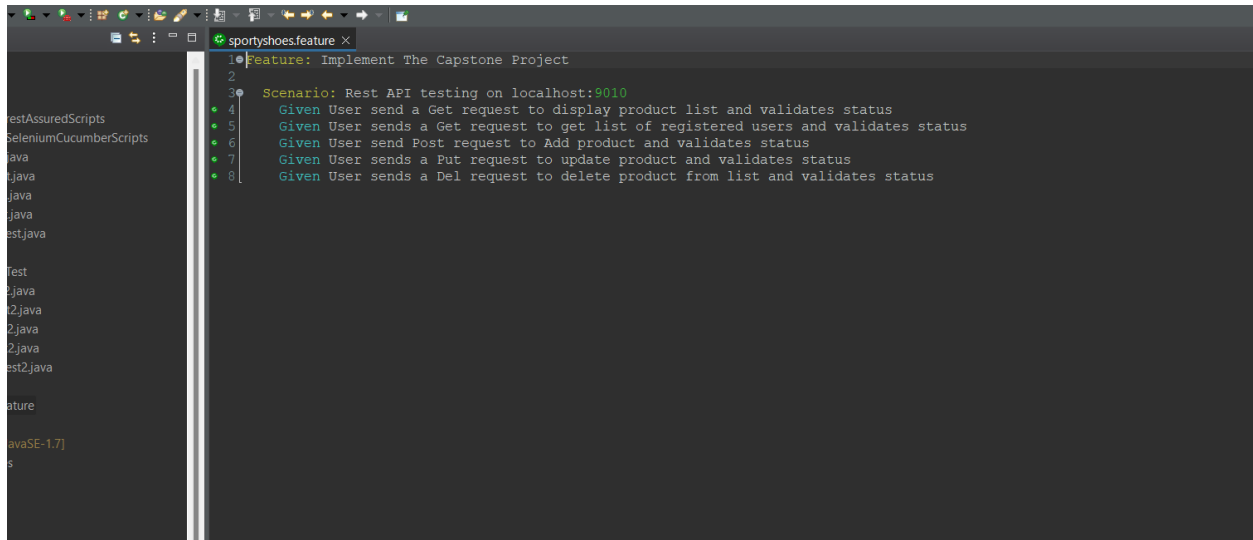
Output Response:



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:

=====

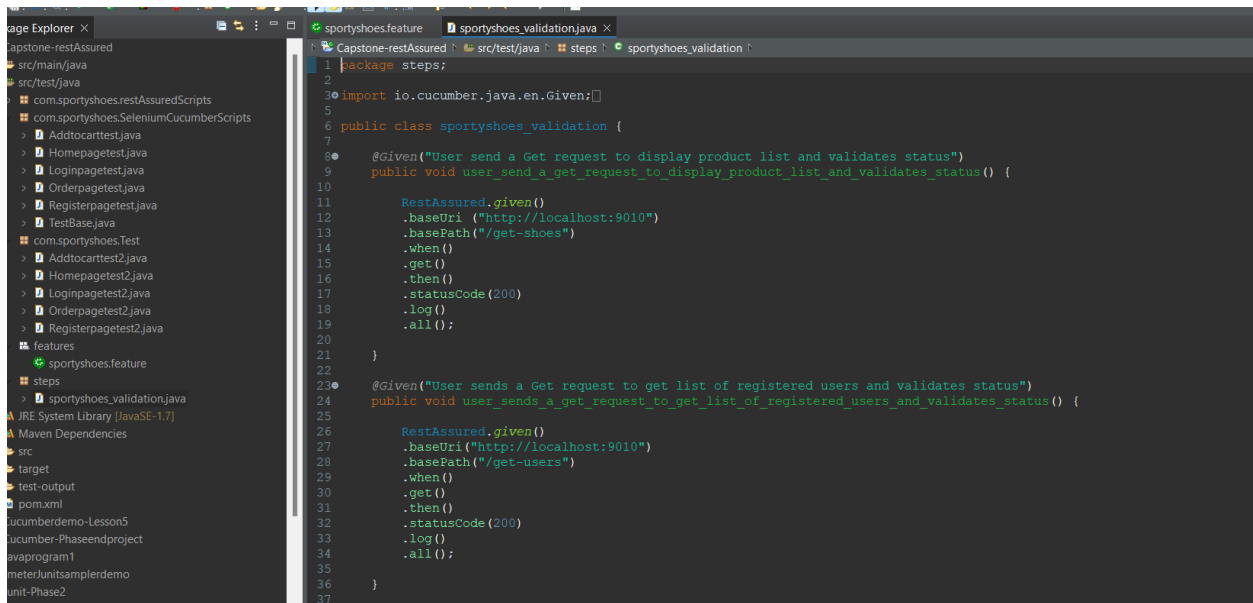


The screenshot shows an IDE with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'src/main/java' and 'src/test/java'. The code editor displays the content of 'sportyshoes.feature'.

```
1 Feature: Implement The Capstone Project
2
3 Scenario: Rest API testing on localhost:9010
4   Given User send a Get request to display product list and validates status
5   Given User sends a Get request to get list of registered users and validates status
6   Given User send Post request to Add product and validates status
7   Given User sends a Put request to update product and validates status
8   Given User sends a Del request to delete product from list and validates status
```

Steps Package:
(sportyshoes_validate.java)

=====



The screenshot shows an IDE with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'src/main/java' and 'src/test/java'. The code editor displays the content of 'sportyshoes_validation.java'.

```
1 package steps;
2
3 import io.cucumber.java.en.Given;
4
5
6 public class sportyshoes_validation {
7
8   @Given("User send a Get request to display product list and validates status")
9   public void user_send_a_get_request_to_display_product_list_and_validates_status() {
10
11     RestAssured.given()
12       .baseUrl("http://localhost:9010")
13       .basePath("/get-shoes")
14       .when()
15       .get()
16       .then()
17       .statusCode(200)
18       .log()
19       .all();
20
21   }
22
23   @Given("User sends a Get request to get list of registered users and validates status")
24   public void user_sends_a_get_request_to_get_list_of_registered_users_and_validates_status() {
25
26     RestAssured.given()
27       .baseUrl("http://localhost:9010")
28       .basePath("/get-users")
29       .when()
30       .get()
31       .then()
32       .statusCode(200)
33       .log()
34       .all();
35
36   }
37 }
```

```
plorer X
e-restAssured
hain/java
est/java
m.sportyshoes.restAssuredScripts
m.sportyshoes.SeleniumCucumberScripts
Addtocarttest.java
HomepageTest.java
Loginpagetest.java
Orderpagetest.java
Registerpagetest.java
TestBase.java
m.sportyshoes.Test
Addtocarttest2.java
HomepageTest2.java
Loginpagetest2.java
Orderpagetest2.java
Registerpagetest2.java
atures
sportyshoes.feature
eps
sportyshoes_validation.java
ystem Library [JavaSE-1.7]
n Dependencies

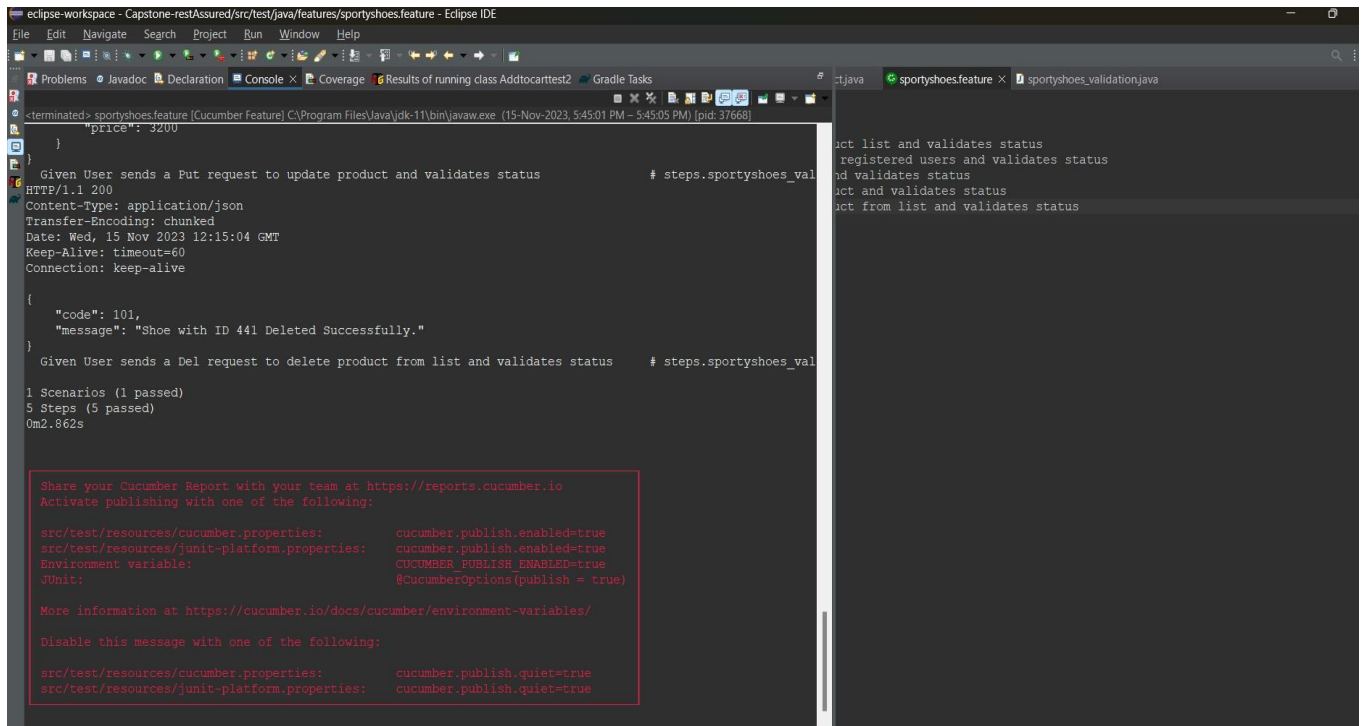
t
output
xml
erdemo-Lesson5
er-Phaseendproject
gram1
unitsamplerdemo
ase2
-TDD-framework
mo-POMFramework
EndProject
GradleProject

sportyshoes.feature  sportyshoes_validation.java X
Capstone-restAssured  src/test/java  steps  sportyshoes_validation
35
36
37
38 @Given("User send Post request to Add product and validates status")
39 public void user_send_post_request_to_add_product_and_validates_status() {
40
41     RestAssured.given()
42         .baseUrl("http://localhost:9010")
43         .basePath("/add-shoe")
44         .queryParams("id", "441")
45         .queryParams("image", "www.Pumashoes12.com")
46         .queryParams("name", "Puma")
47         .queryParams("category", "Sneakers")
48         .queryParams("sizes", "8,9")
49         .queryParams("price", "3500")
50         .when()
51         .post()
52         .then()
53         .log().all();
54
55 }
56
57 @Given("User sends a Put request to update product and validates status")
58 public void user_sends_a_put_request_to_update_product_and_validates_status() {
59
60     RestAssured.given()
61         .baseUrl("http://localhost:9010")
62         .basePath("/update-shoe")
63         .queryParams("id", "441")
64         .queryParams("image", "www.image08.com")
65         .queryParams("name", "Red Chief")
66         .queryParams("category", "Formal")
67         .queryParams("sizes", "7,9,10")
68         .queryParams("price", "3200")
69         .when()
70         .put()
71         .then()
72         .log().all();
73
74 }
75
```

```
73
74
75
76 @Given("User sends a Del request to delete product from list and validates status")
77 public void user_sends_a_del_request_to_delete_product_from_list_and_validates_status() {
78
79     RestAssured.given()
80         .baseUrl("http://localhost:9010")
81         .basePath("/delete-shoe")
82         .queryParams("id", "441")
83         .when().delete()
84         .then().log().all();
85
86 }
87
88 }
89
```

=====

Cucumber Output response:



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

- Top Bar:** eclipse-workspace - Capstone-restAssured/src/test/java/features/sportyshoes.feature - Eclipse IDE
- Menu Bar:** File, Edit, Navigate, Search, Project, Run, Window, Help
- Toolbar:** Standard IDE icons for file operations and running.
- Console View:** Displays the output of the test run.
 - Header: Results of running class Addtocarttest2
 - Content:

```
<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
```
- Code Editor:** Shows the `sportyshoes_validation.java` file with the following code:

```
act list and validates status
registered users and validates status
nd validates status
act and validates status
act from list and validates status
```
- Bottom Panel:** Contains a red-bordered box with Cucumber publishing instructions:

```
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)

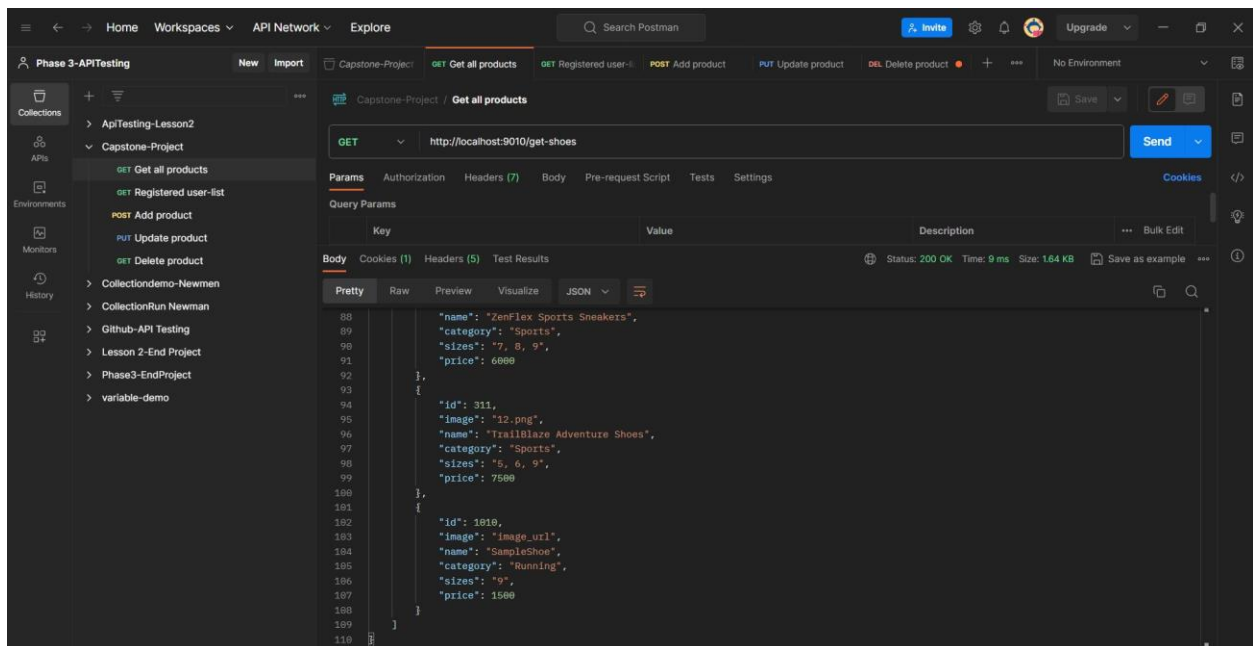
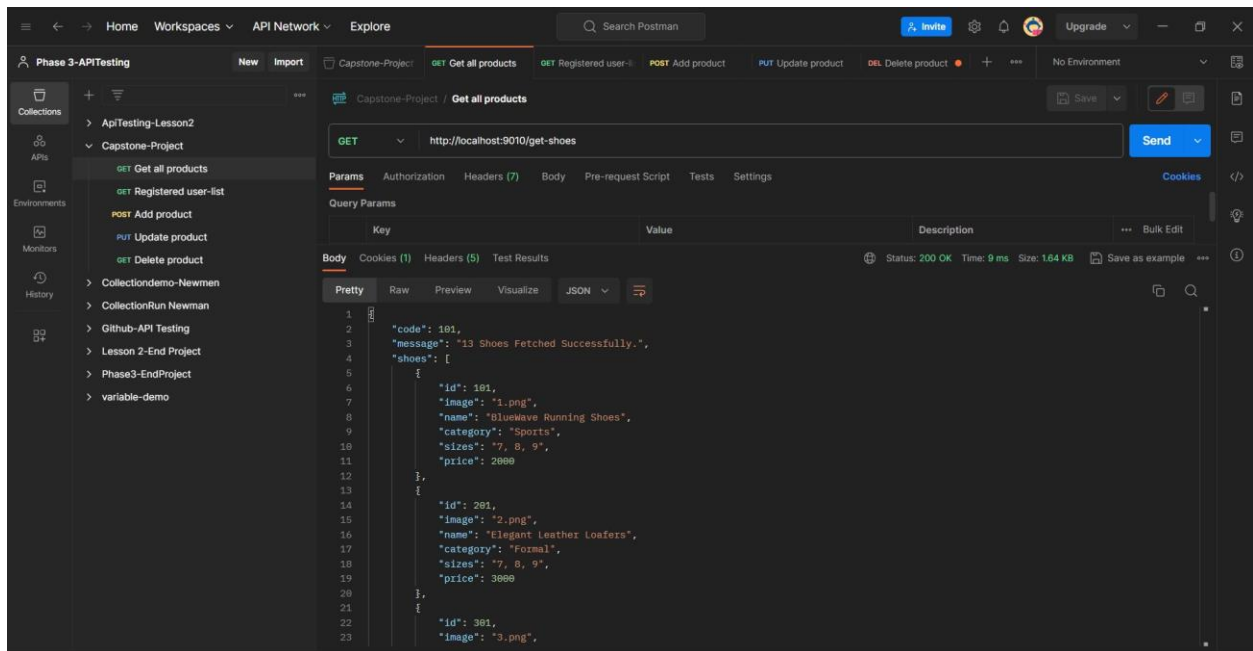
More information at https://cucumber.io/docs/cucumber/environment-variables/

Disable this message with one of the following:

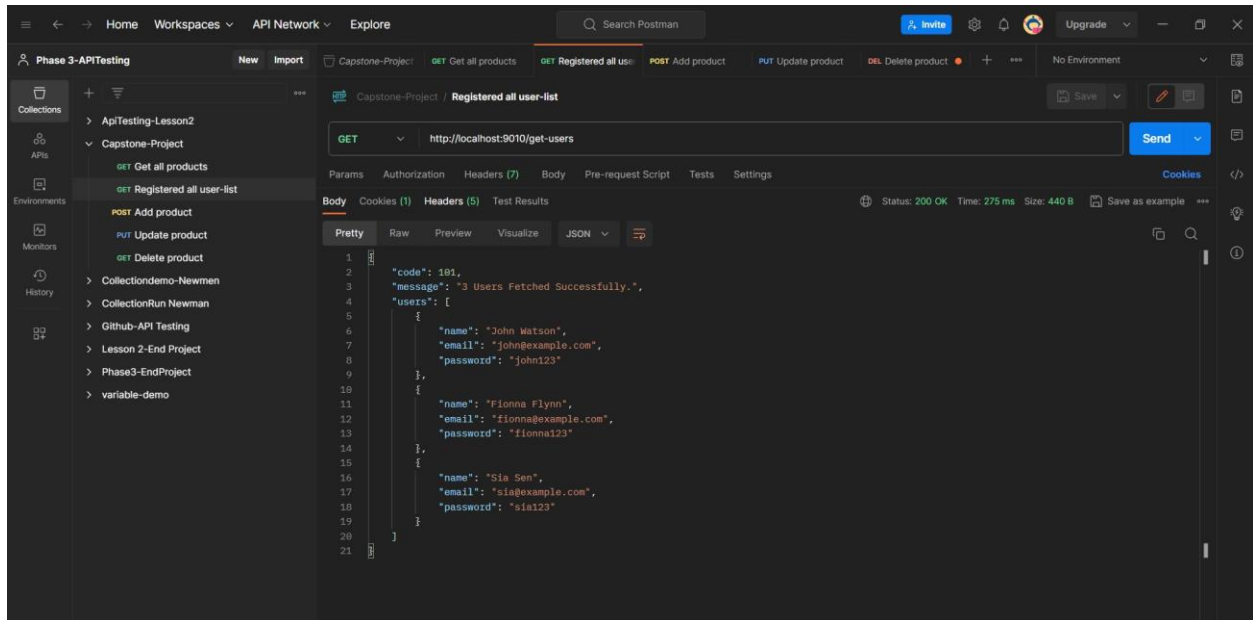
src/test/resources/cucumber.properties:  cucumber.publish.quiet=true
src/test/resources/junit-platform.properties:  cucumber.publish.quiet=true
```

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

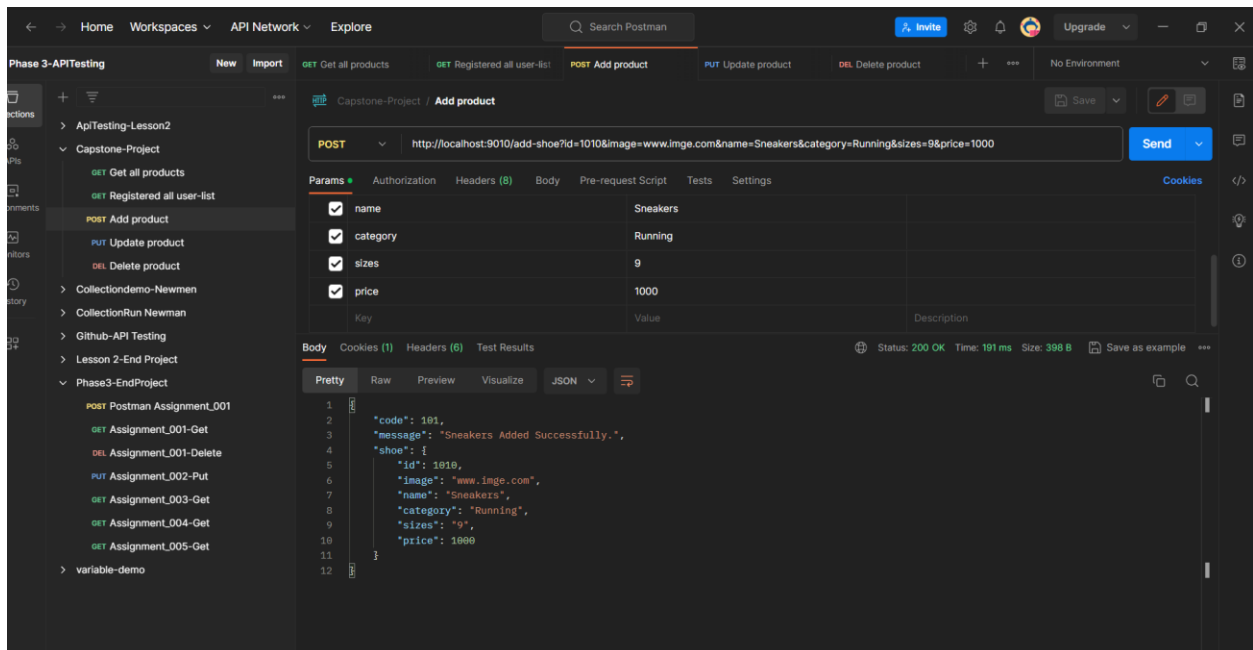
Display all products in the store:



Display list of all registered users:



Add the Products:



Update Products:

The screenshot shows the Postman interface with a PUT request to `http://localhost:9010/update-shoe?id=1010&image=image_url1&name=SampleShoes&category=Running&sizes=9&price=1500`. The request is saved under the "Capstone-Project" collection. The "Params" tab is active, showing the following parameters:

Key	Value	Description
<input checked="" type="checkbox"/> name	SampleShoes	
<input checked="" type="checkbox"/> category	Running	
<input checked="" type="checkbox"/> sizes	9	
<input checked="" type="checkbox"/> price	1500	

The "Body" tab is also active, showing the response in JSON format:

```
1 {
2   "code": 101,
3   "message": "SampleShoes Updated Successfully.",
4   "shoe": {
5     "id": 1010,
6     "image": "image_url1",
7     "name": "SampleShoes",
8     "category": "Running",
9     "sizes": "9",
10    "price": 1500
11  }
12 }
```

The status is 200 OK, Time: 35 ms, Size: 328 B.

Delete Product

The screenshot shows the Postman interface with a DELETE request to `http://localhost:9010/delete-shoe?id=1010`. The request is saved under the "Capstone-Project" collection. The "Params" tab is active, showing the following query parameters:

Key	Value	Description
<input checked="" type="checkbox"/> id	1010	

The "Body" tab is also active, showing the response in JSON format:

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

The status is 200 OK, Time: 21 ms, Size: 228 B.