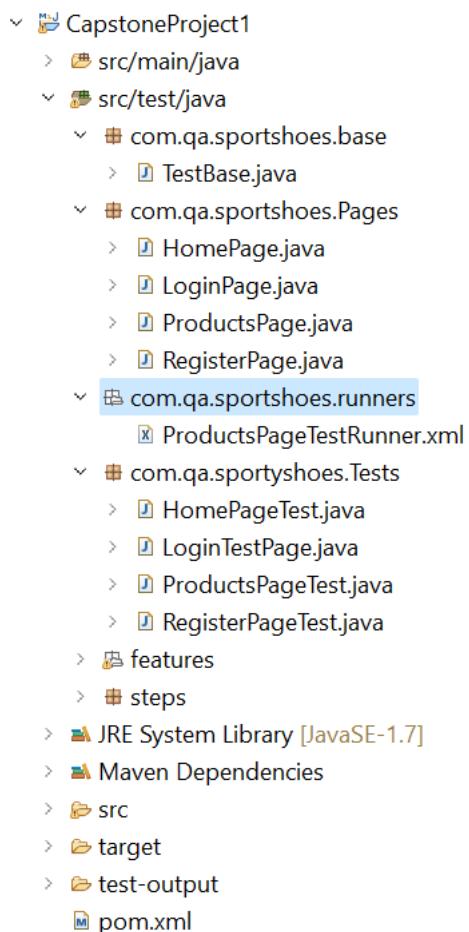


Capstone Project

1. Selenium Scripts using TestNG:

Step 1:

Create a Project CapstoneProject and add the dependencies like selenium webdriver and TestNg and Create Packages and classes as below.



Capstone Project

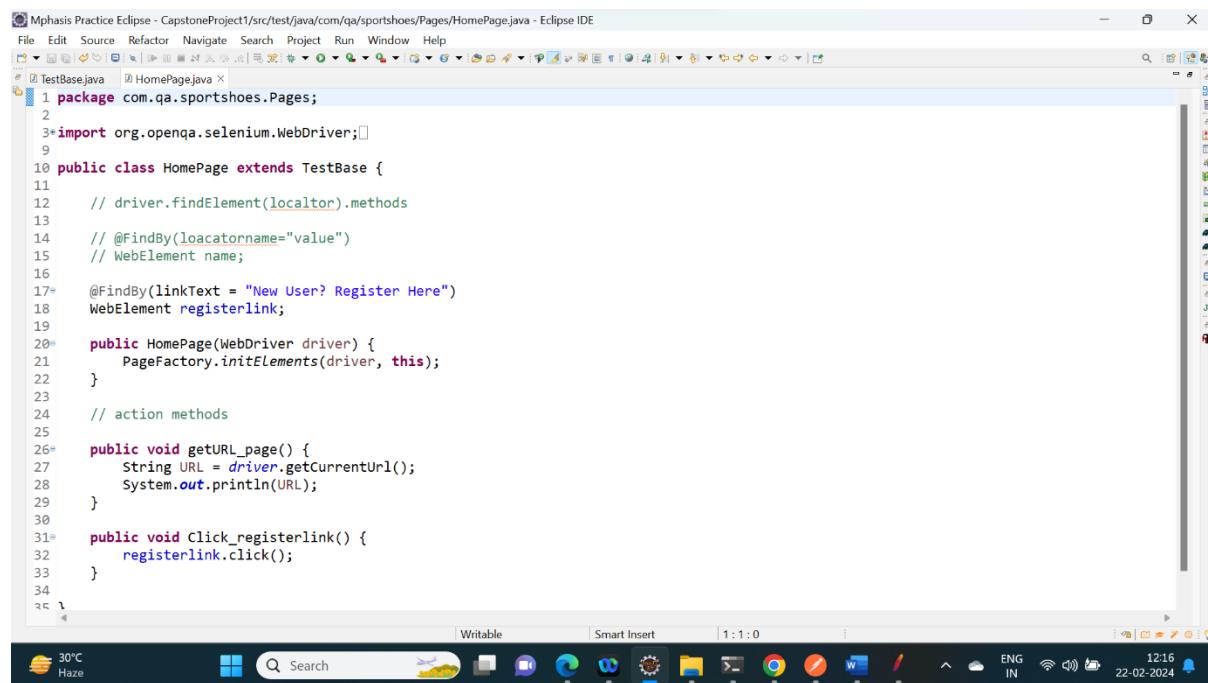
Step 2:

Write the code inside TestBase Class to open Browser and close browser.

```
1 package com.qa.sportshoes.base;
2
3 import org.openqa.selenium.WebDriver;
4
5 public class TestBase {
6     public static WebDriver driver;
7
8     public static void openBrowser() {
9
10         driver = new ChromeDriver();
11         driver.manage().window().maximize();
12         driver.manage().deleteAllCookies();
13         driver.get("http://localhost:8100/");
14
15     }
16
17     public void closebrowser() {
18         driver.close();
19     }
20
21 }
22
```

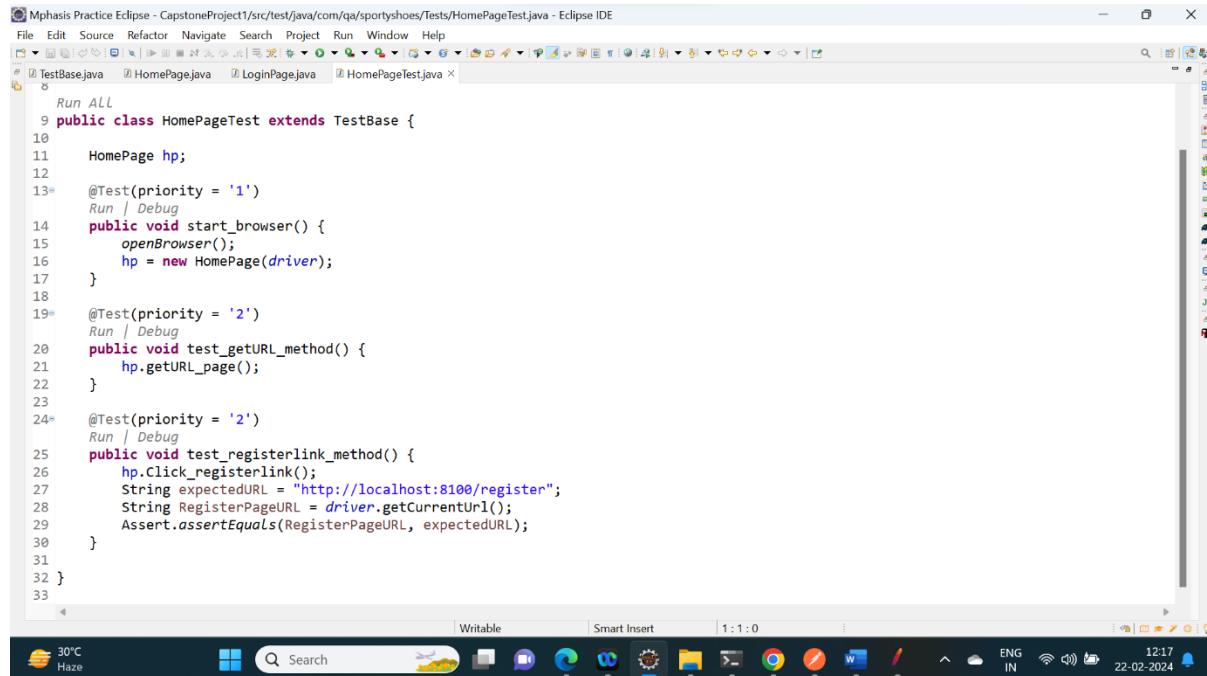
Step 3:

Write Code inside HomePage with the locators and actions required for homepage test and write home page testing code inside HomePageTest class and run the class.



```
1 package com.qa.sportshoes.Pages;
2
3 import org.openqa.selenium.WebDriver;
4
5 public class HomePage extends TestBase {
6
7     // driver.findElement(locator).methods
8
9     // @FindBy(locatorname="value")
10    // WebElement name;
11
12    @FindBy(linkText = "New User? Register Here")
13    WebElement registerlink;
14
15    public HomePage(WebDriver driver) {
16        PageFactory.initElements(driver, this);
17    }
18
19    // action methods
20
21    public void getURL_page() {
22        String URL = driver.getCurrentUrl();
23        System.out.println(URL);
24    }
25
26    public void Click_registerlink() {
27        registerlink.click();
28    }
29
30
31
32
33
34 }
```

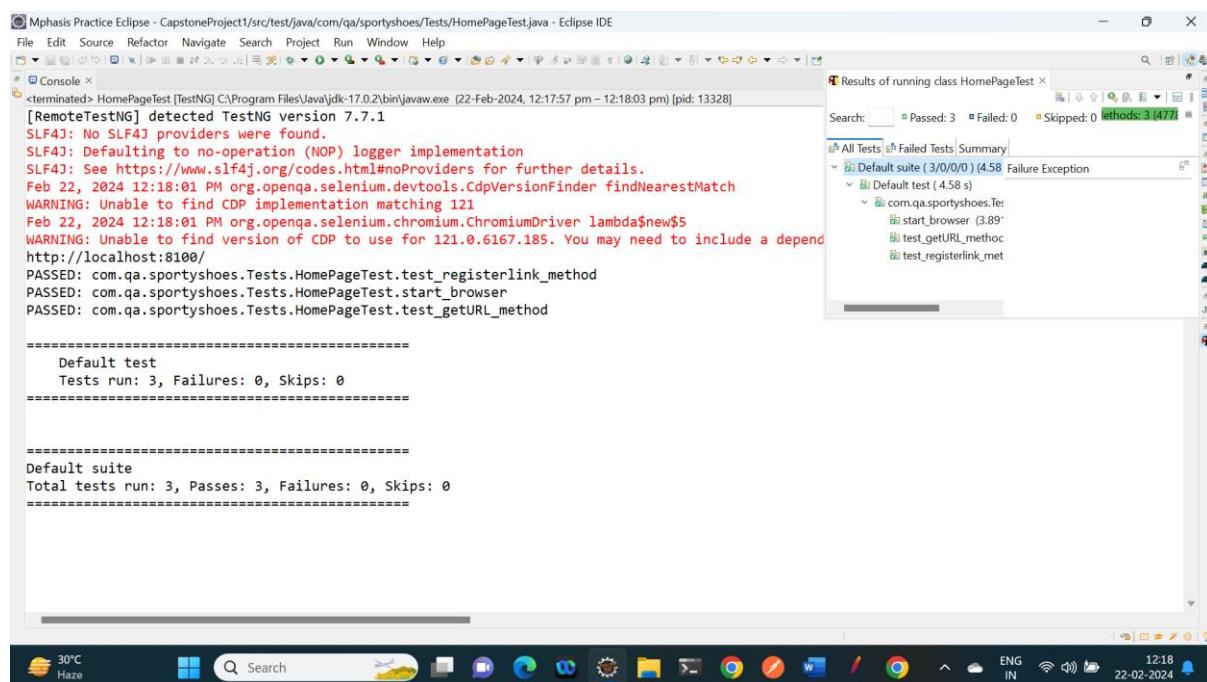
Capstone Project



The screenshot shows the Eclipse IDE interface with the title bar "Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/HomePageTest.java - Eclipse IDE". The code editor displays the following Java code:

```
Run ALL
public class HomePageTest extends TestBase {
    HomePage hp;
    @Test(priority = '1')
    Run | Debug
    public void start_browser() {
        openBrowser();
        hp = new HomePage(driver);
    }
    @Test(priority = '2')
    Run | Debug
    public void test_getURL_method() {
        hp.getURL_page();
    }
    @Test(priority = '2')
    Run | Debug
    public void test_registerlink_method() {
        hp.Click_registerlink();
        String expectedURL = "http://localhost:8100/register";
        String RegisterPageURL = driver.getCurrentUrl();
        Assert.assertEquals(RegisterPageURL, expectedURL);
    }
}
```

The status bar at the bottom shows system information: 30°C Haze, Search, 12:17, 22-02-2024.



The screenshot shows the Eclipse IDE interface with the title bar "Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/HomePageTest.java - Eclipse IDE". The left pane shows the command-line output of the test run:

```
[terminated> HomePageTest [testNG] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (22-Feb-2024, 12:17:57 pm – 12:18:03 pm) [pid: 13328]
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Feb 22, 2024 12:18:01 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 121
Feb 22, 2024 12:18:01 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 121.0.6167.185. You may need to include a dependency http://localhost:8100/
PASSED: com.qa.sportyshoes.Tests.HomePageTest.test_registerlink_method
PASSED: com.qa.sportyshoes.Tests.HomePageTest.start_browser
PASSED: com.qa.sportyshoes.Tests.HomePageTest.test_getURL_method
=====
Default test
Tests run: 3, Failures: 0, Skips: 0
=====

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

The right pane shows the "Results of running class HomePageTest" view, which displays the test summary:

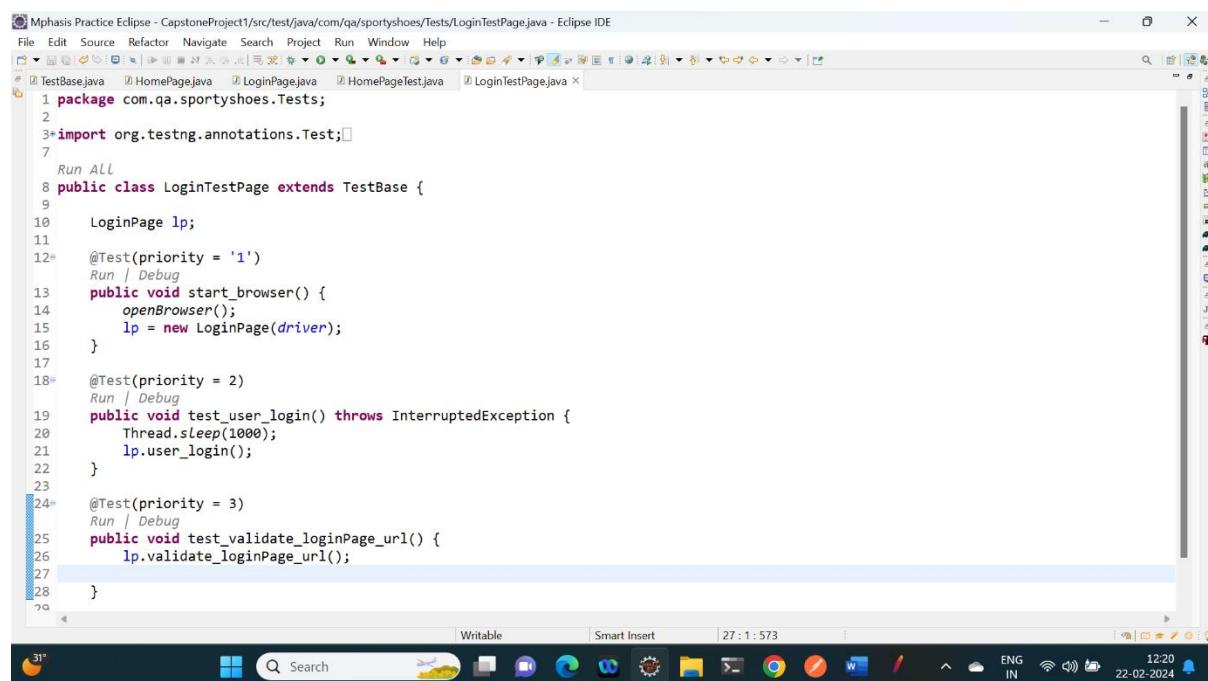
All Tests	Failed Tests	Summary
3/0/0/0 (4.58 Failure Exception)	0	Passed: 3 Failed: 0 Skipped: 0 methods: 3 (4.58)

The status bar at the bottom shows system information: 30°C Haze, Search, 12:18, 22-02-2024.

Capstone Project

Step 4:

Same as Step 3 repeat for register page, Login page and ProductsPage.

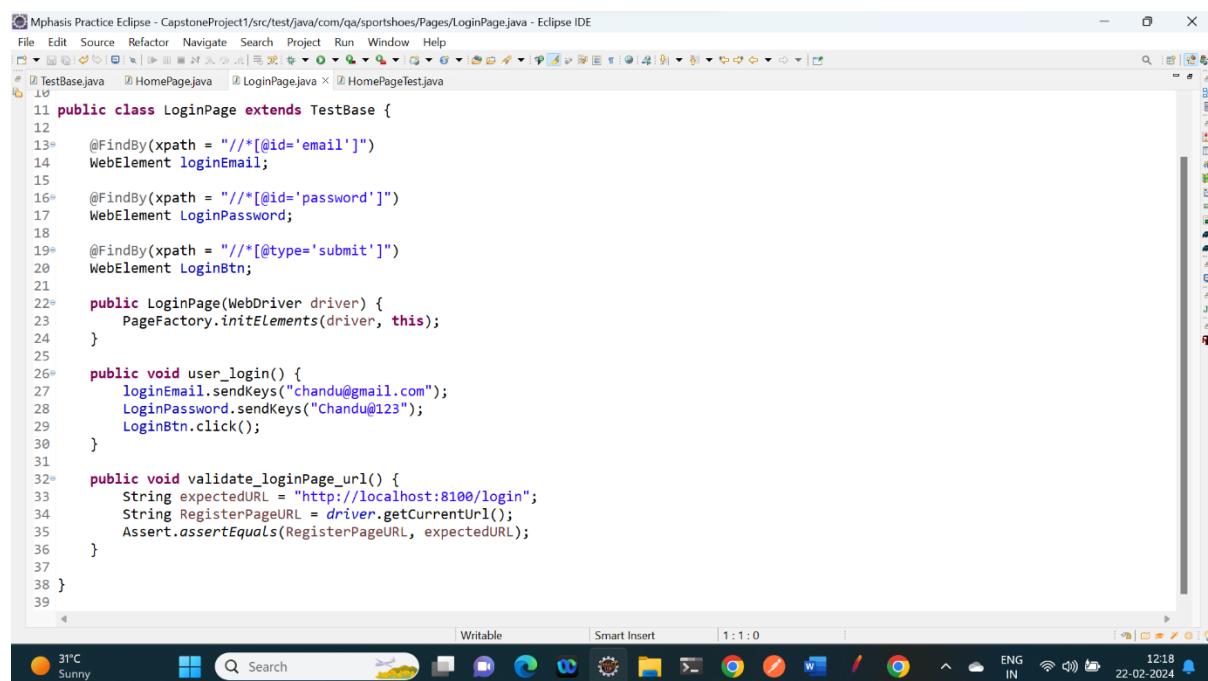


Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/LoginTestPage.java - Eclipse IDE

```
1 package com.qa.sportyshoes.Tests;
2
3 import org.testng.annotations.Test;
4
5 Run All
6
7
8 public class LoginTestPage extends TestBase {
9
10 LoginPage lp;
11
12 @Test(priority = '1')
13 Run | Debug
14 public void start_browser() {
15     openBrowser();
16     lp = new LoginPage(driver);
17 }
18
19 @Test(priority = 2)
20 Run | Debug
21 public void test_user_login() throws InterruptedException {
22     Thread.sleep(1000);
23     lp.user_login();
24 }
25
26 @Test(priority = 3)
27 Run | Debug
28 public void test_validate_loginPage_url() {
29     lp.validate_loginPage_url();
30 }
```

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ENG IN 12:20 22-02-2024



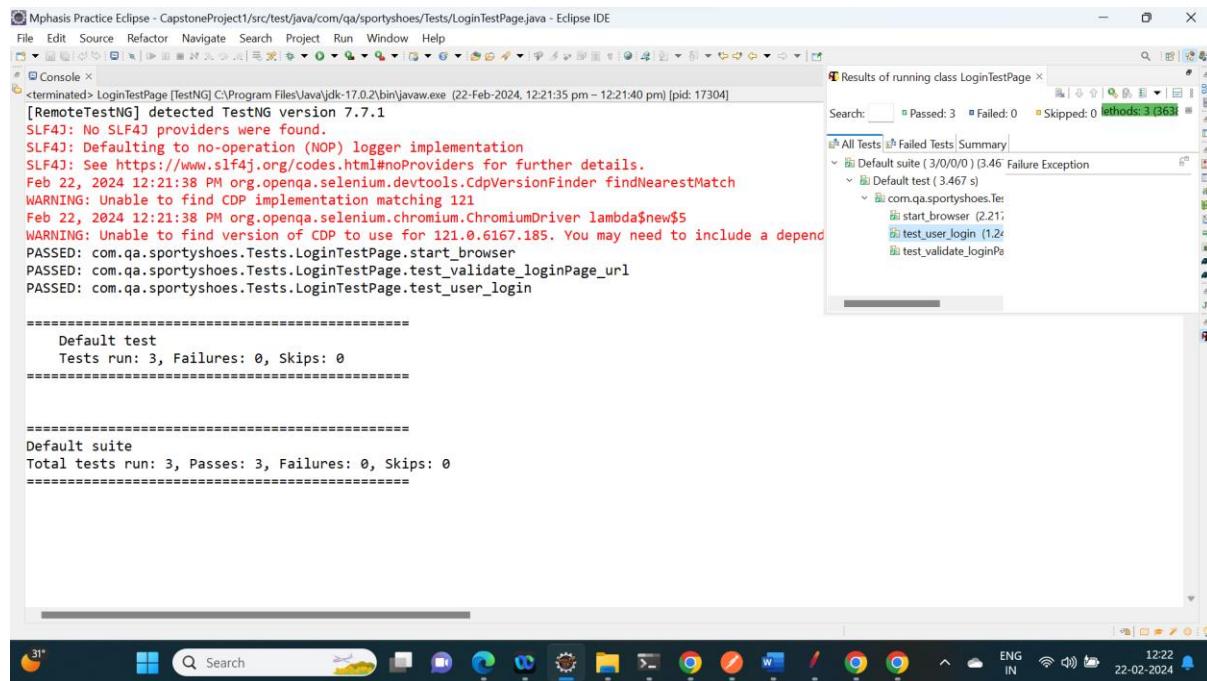
Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Pages/LoginPage.java - Eclipse IDE

```
1 package com.qa.sportyshoes.Pages;
2
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.support.FindBy;
6 import org.openqa.selenium.support.PageFactory;
7
8 public class LoginPage extends TestBase {
9
10 WebDriver driver;
11
12 @FindBy(xpath = "//*[@id='email']")
13 WebElement loginEmail;
14
15 @FindBy(xpath = "//*[@id='password']")
16 WebElement loginPassword;
17
18 @FindBy(xpath = "//*[@type='submit']")
19 WebElement loginBtn;
20
21 public LoginPage(WebDriver driver) {
22     PageFactory.initElements(driver, this);
23 }
24
25 public void user_login() {
26     loginEmail.sendKeys("chandu@gmail.com");
27     loginPassword.sendKeys("Chandu@123");
28     loginBtn.click();
29 }
30
31 public void validate_loginPage_url() {
32     String expectedURL = "http://localhost:8100/login";
33     String RegisterPageURL = driver.getCurrentUrl();
34     Assert.assertEquals(RegisterPageURL, expectedURL);
35 }
36
37
38 }
```

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Capstone Project



Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/LoginTestPage.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Console

```
[terminated> LoginTestPage [TestNG] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (22-Feb-2024, 12:21:35 pm - 12:21:40 pm) [pid: 17304]
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Feb 22, 2024 12:21:38 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 121
Feb 22, 2024 12:21:38 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 121.0.6167.185. You may need to include a dependency
PASSED: com.qa.sportyshoes.Tests.LoginTestPage.start_browser
PASSED: com.qa.sportyshoes.Tests.LoginTestPage.test_validate_loginPage_url
PASSED: com.qa.sportyshoes.Tests.LoginTestPage.test_user_login

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

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

Results of running class LoginTestPage

All Tests Failed Tests Summary

Default suite (3/0/0/0) [3.46 Failure Exception]

Default test (3.467 s)

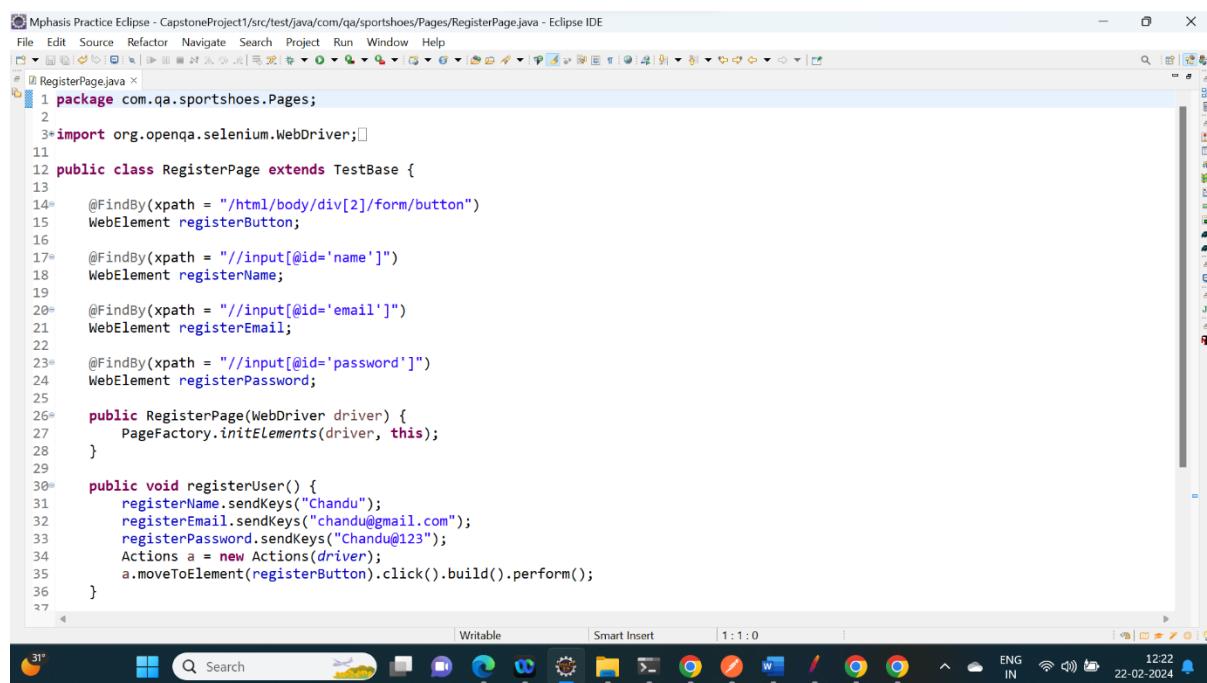
com.qa.sportyshoes.Tests.LoginTestPage

start_browser (2.217s)

test_user_login (1.24s)

test_validate_loginPage_url (0.01s)

12:22 22-02-2024 ENG IN



Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Pages/RegisterPage.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

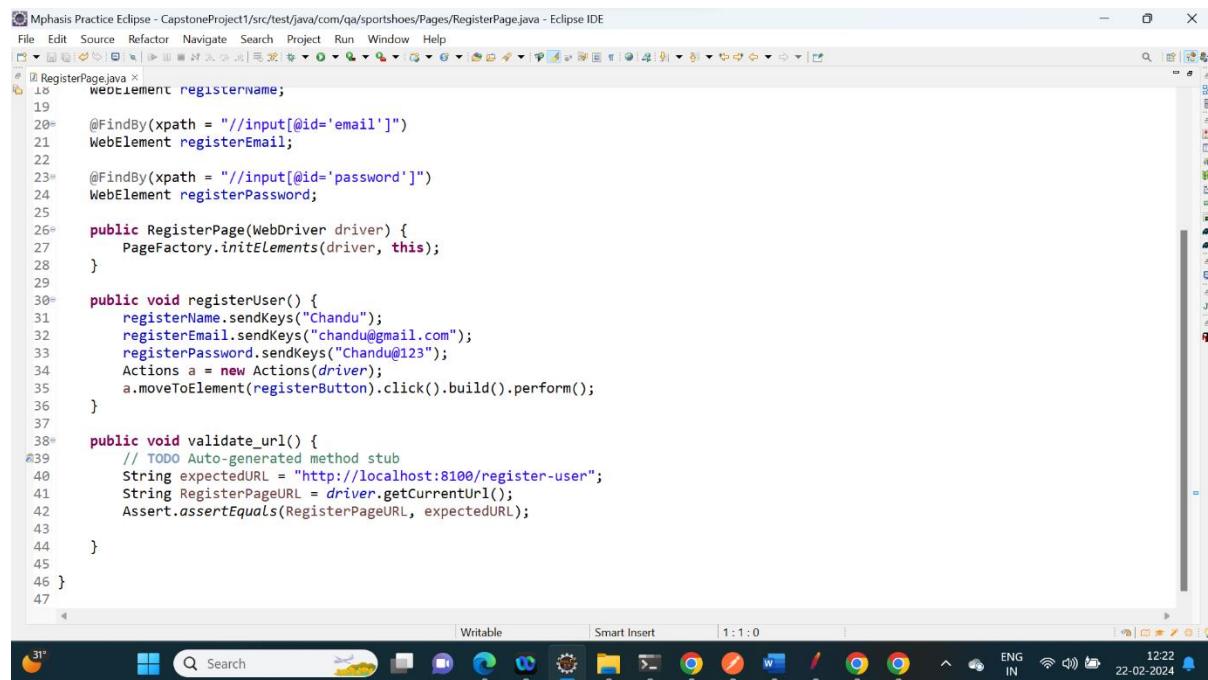
RegisterPage.java

```
1 package com.qa.sportyshoes.Pages;
2
3 import org.openqa.selenium.WebDriver;
4
5 public class RegisterPage extends TestBase {
6
7     @FindBy(xpath = "/html/body/div[2]/form/button")
8     WebElement registerButton;
9
10    @FindBy(xpath = "//input[@id='name']")
11    WebElement registerName;
12
13    @FindBy(xpath = "//input[@id='email']")
14    WebElement registerEmail;
15
16    @FindBy(xpath = "//input[@id='password']")
17    WebElement registerPassword;
18
19    public RegisterPage(WebDriver driver) {
20        PageFactory.initElements(driver, this);
21    }
22
23    public void registerUser() {
24        registerName.sendKeys("Chandu");
25        registerEmail.sendKeys("chandu@gmail.com");
26        registerPassword.sendKeys("chandu@123");
27        Actions a = new Actions(driver);
28        a.moveToElement(registerButton).click().build().perform();
29    }
30}
```

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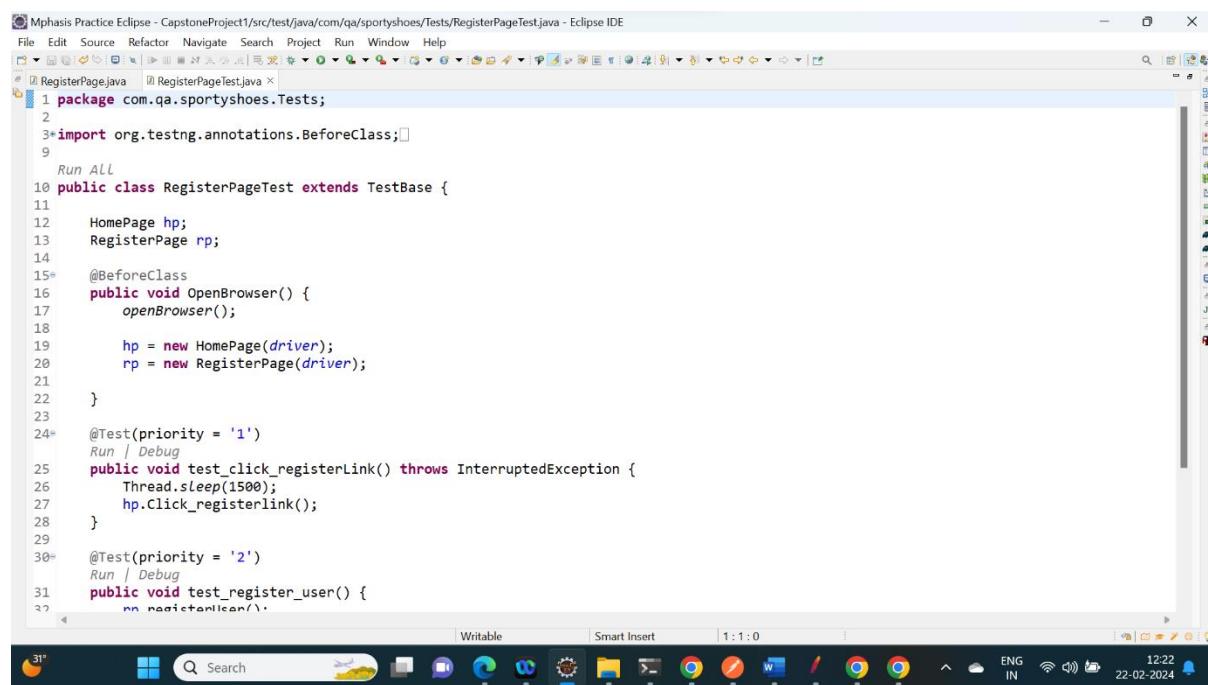
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Capstone Project



Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Pages/RegisterPage.java - Eclipse IDE

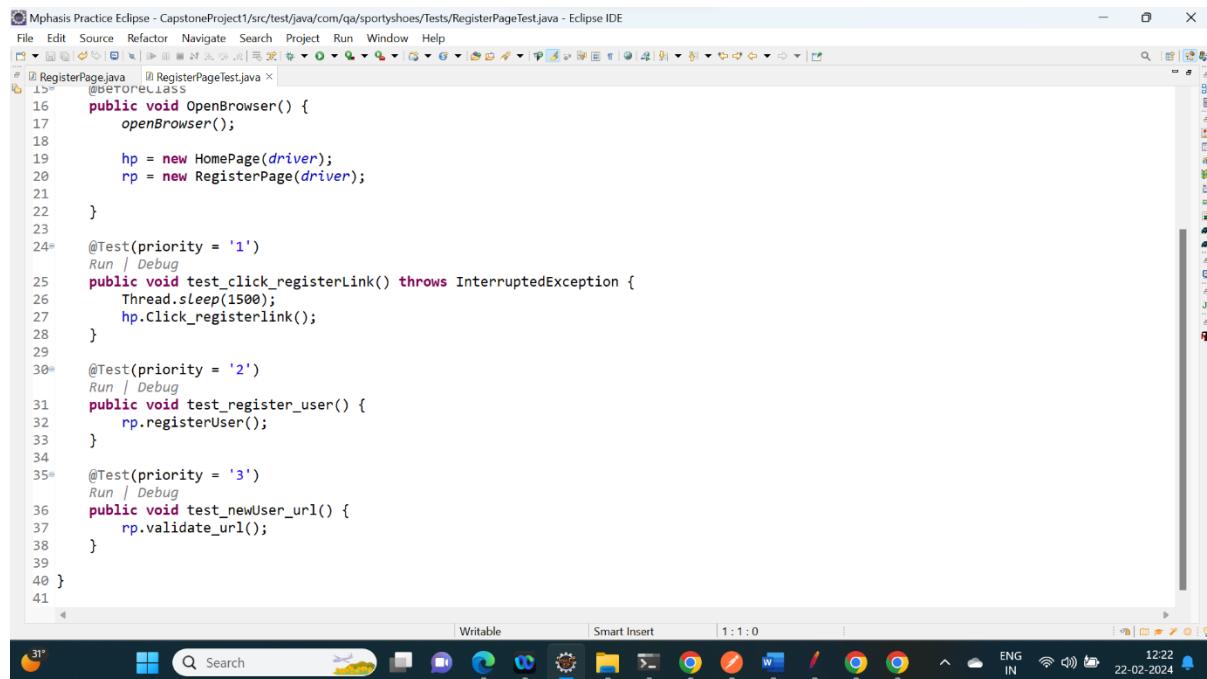
```
1 package com.qa.sportyshoes.Pages;
2
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.WebElement;
5 import org.openqa.selenium.support.FindBy;
6 import org.openqa.selenium.support.PageFactory;
7
8 public class RegisterPage {
9     WebDriver driver;
10    WebElement registerName;
11    WebElement registerEmail;
12    WebElement registerPassword;
13
14    @FindBy(xpath = "//input[@id='name']")
15    WebElement registerName;
16
17    @FindBy(xpath = "//input[@id='email']")
18    WebElement registerEmail;
19
20    @FindBy(xpath = "//input[@id='password']")
21    WebElement registerPassword;
22
23    public RegisterPage(WebDriver driver) {
24        PageFactory.initElements(driver, this);
25    }
26
27    public void registerUser() {
28        registerName.sendKeys("Chandu");
29        registerEmail.sendKeys("chandu@gmail.com");
30        registerPassword.sendKeys("Chandu@123");
31        Actions a = new Actions(driver);
32        a.moveToElement(registerButton).click().build().perform();
33    }
34
35    public void validate_url() {
36        // TODO Auto-generated method stub
37        String expectedURL = "http://localhost:8100/register-user";
38        String RegisterPageURL = driver.getCurrentUrl();
39        Assert.assertEquals(RegisterPageURL, expectedURL);
40    }
41
42 }
```



Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/RegisterPageTest.java - Eclipse IDE

```
1 package com.qa.sportyshoes.Tests;
2
3 import org.testng.annotations.BeforeClass;
4
5 @BeforeClass
6 public class RegisterPageTest extends TestBase {
7
8     HomePage hp;
9     RegisterPage rp;
10
11     @BeforeClass
12     public void OpenBrowser() {
13         openBrowser();
14     }
15
16     @Test(priority = '1')
17     public void test_click_registerLink() throws InterruptedException {
18         Thread.sleep(1500);
19         hp.Click_registerlink();
20     }
21
22     @Test(priority = '2')
23     public void test_register_user() {
24         rp.registerUser();
25     }
26 }
```

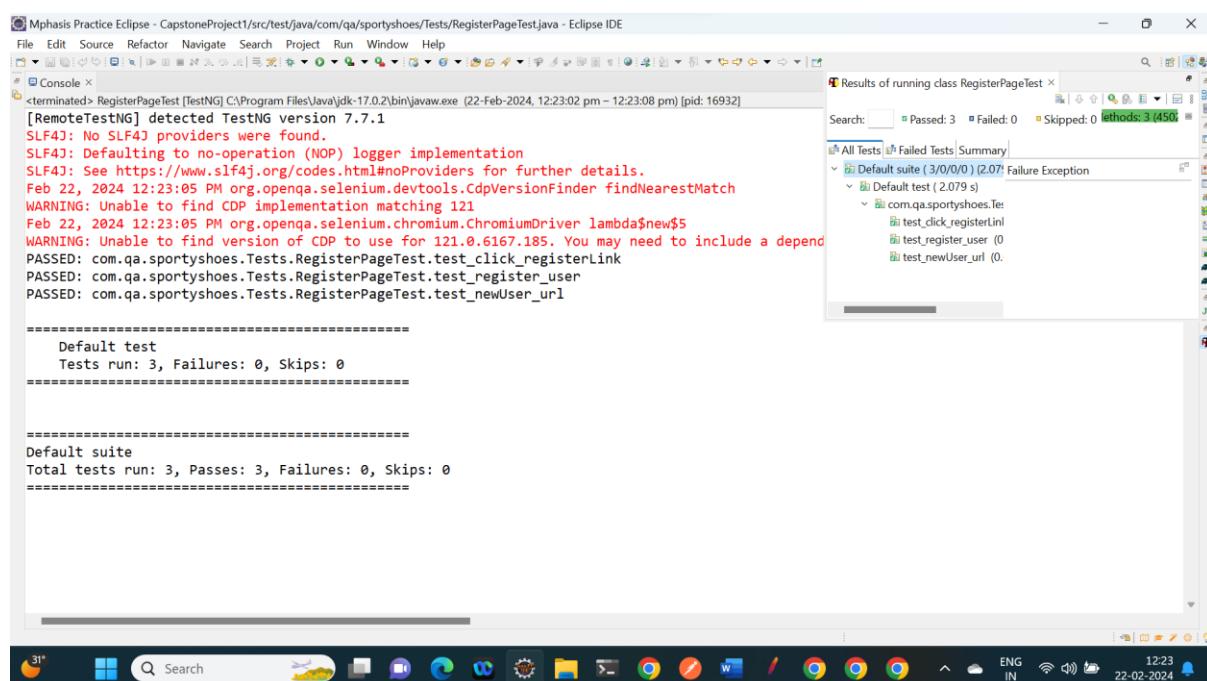
Capstone Project



Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/RegisterPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
RegisterPage.java RegisterPageTest.java
16  public void OpenBrowser() {
17      openBrowser();
18
19      hp = new HomePage(driver);
20      rp = new RegisterPage(driver);
21
22  }
23
24  @Test(priority = '1')
25  Run | Debug
26  public void test_click_registerLink() throws InterruptedException {
27      Thread.sleep(1500);
28      hp.Click_registerlink();
29  }
30
31  @Test(priority = '2')
32  Run | Debug
33  public void test_register_user() {
34      rp.registerUser();
35  }
36
37  @Test(priority = '3')
38  Run | Debug
39  public void test_newUser_url() {
40      rp.validate_url();
41  }
42 }
```

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Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/RegisterPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Console X
[terminated] RegisterPageTest [TestNG] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (22-Feb-2024, 12:23:02 pm – 12:23:08 pm) [pid: 16932]
[RemoteTestNG] detected TestNG version 7.7.1
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Feb 22, 2024 12:23:05 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 121
Feb 22, 2024 12:23:05 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 121.0.6167.185. You may need to include a depend
PASSED: com.qa.sportyshoes.Tests.RegisterPageTest.test_click_registerLink
PASSED: com.qa.sportyshoes.Tests.RegisterPageTest.test_register_user
PASSED: com.qa.sportyshoes.Tests.RegisterPageTest.test_newUser_url

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

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

Results of running class RegisterPageTest x
All Tests Passed: 3 Failed: 0 Skipped: 0 Methods: 3 (450)
All Tests Failed Tests Summary
Default suite (3/0/0/0) (2.07 Failure Exception)
Default test (2.079 s)
com.qa.sportyshoes.Tests
test_click_registerLink
test_register_user (0)
test_newUser_url (0)

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Capstone Project

Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportshoes/Pages/ProductsPage.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

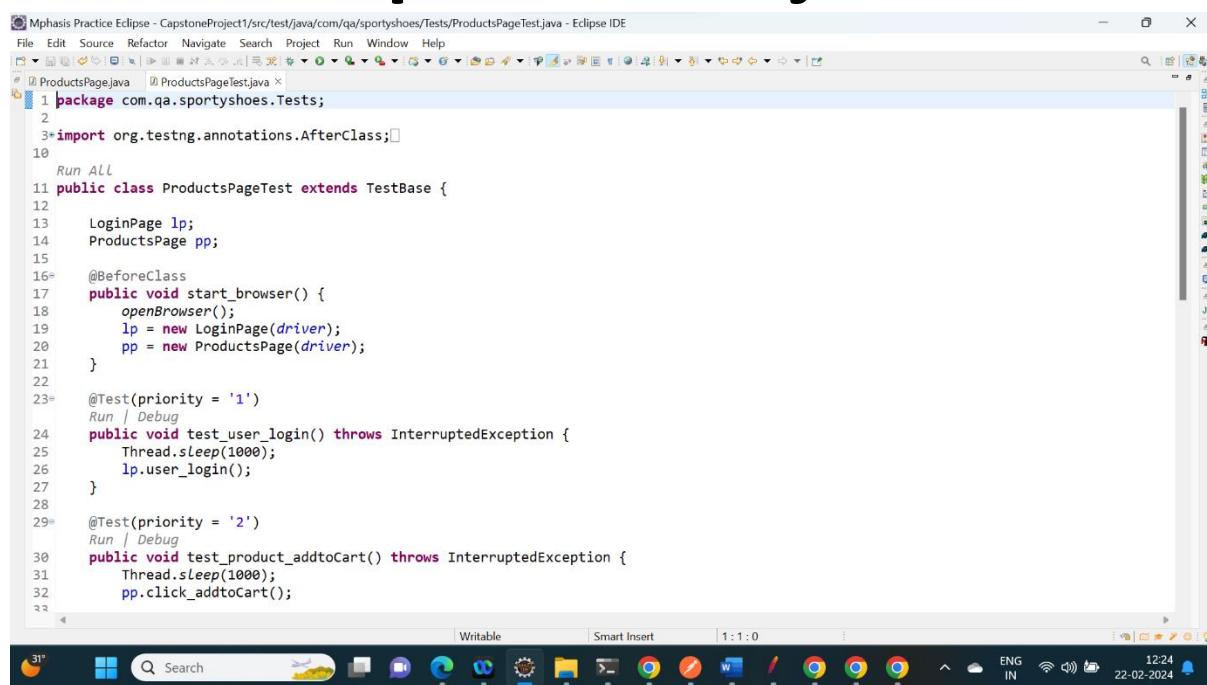
```
ProductsPage.java x
1 package com.qa.sportshoes.Pages;
2
3* import org.openqa.selenium.JavascriptExecutor;□
4
5 public class ProductsPage {
6
7     @FindBy(xpath = "//*[@id='cart101']")
8     WebElement addtocartBTN;
9
10    @FindBy(linkText = "Home")
11    WebElement HomeBTN;
12
13    @FindBy(linkText = "Cart")
14    WebElement CartBTN;
15
16    @FindBy(xpath = "//*[@id='place-order']")
17    WebElement placeOrderBTN;
18
19    @FindBy(linkText = "Orders")
20    WebElement OrdersBTN;
21
22    @FindBy(linkText = "Logout")
23    WebElement logoutBTN;
24
25    JavascriptExecutor executor;
26
27    public ProductsPage(WebDriver driver) {
28        PageFactory.initElements(driver, this);
29        executor = (JavascriptExecutor) driver;
30    }
31
32    public void addProductToCart() {
33        addtocartBTN.click();
34    }
35
36    public void goToCart() {
37        CartBTN.click();
38    }
39
40    public void placeOrder() {
41        placeOrderBTN.click();
42    }
43
44    public void goHome() {
45        HomeBTN.click();
46    }
47
48    public void logOut() {
49        logoutBTN.click();
50    }
51
52    public void clickOnOrders() {
53        OrdersBTN.click();
54    }
55
56    public void clickOnPlaceOrder() {
57        placeOrderBTN.click();
58    }
59
60    public void clickOnCart() {
61        CartBTN.click();
62    }
63
64    public void clickOnAddToCart() {
65        addtocartBTN.click();
66    }
67
68    public void clickOnHome() {
69        HomeBTN.click();
70    }
71
72    public void clickOnLogout() {
73        logoutBTN.click();
74    }
75
76    public void clickOnPlaceOrder() {
77        placeOrderBTN.click();
78    }
79
80    public void clickOnOrders() {
81        OrdersBTN.click();
82    }
83
84    public void clickOnCart() {
85        CartBTN.click();
86    }
87
88    public void clickOnAddToCart() {
89        addtocartBTN.click();
90    }
91
92    public void clickOnHome() {
93        HomeBTN.click();
94    }
95
96    public void clickOnLogout() {
97        logoutBTN.click();
98    }
99
100   public void clickOnPlaceOrder() {
101      placeOrderBTN.click();
102  }
103
104  public void clickOnOrders() {
105      OrdersBTN.click();
106  }
107
108  public void clickOnCart() {
109      CartBTN.click();
110  }
111
112  public void clickOnAddToCart() {
113      addtocartBTN.click();
114  }
115
116  public void clickOnHome() {
117      HomeBTN.click();
118  }
119
120  public void clickOnLogout() {
121      logoutBTN.click();
122  }
123
124  public void clickOnPlaceOrder() {
125      placeOrderBTN.click();
126  }
127
128  public void clickOnOrders() {
129      OrdersBTN.click();
130  }
131
132  public void clickOnCart() {
133      CartBTN.click();
134  }
135
136  public void clickOnAddToCart() {
137      addtocartBTN.click();
138  }
139
140  public void clickOnHome() {
141      HomeBTN.click();
142  }
143
144  public void clickOnLogout() {
145      logoutBTN.click();
146  }
147
148  public void clickOnPlaceOrder() {
149      placeOrderBTN.click();
150  }
151
152  public void clickOnOrders() {
153      OrdersBTN.click();
154  }
155
156  public void clickOnCart() {
157      CartBTN.click();
158  }
159
160  public void clickOnAddToCart() {
161      addtocartBTN.click();
162  }
163
164  public void clickOnHome() {
165      HomeBTN.click();
166  }
167
168  public void clickOnLogout() {
169      logoutBTN.click();
170  }
171
172  public void clickOnPlaceOrder() {
173      placeOrderBTN.click();
174  }
175
176  public void clickOnOrders() {
177      OrdersBTN.click();
178  }
179
180  public void clickOnCart() {
181      CartBTN.click();
182  }
183
184  public void clickOnAddToCart() {
185      addtocartBTN.click();
186  }
187
188  public void clickOnHome() {
189      HomeBTN.click();
190  }
191
192  public void clickOnLogout() {
193      logoutBTN.click();
194  }
195
196  public void clickOnPlaceOrder() {
197      placeOrderBTN.click();
198  }
199
200  public void clickOnOrders() {
201      OrdersBTN.click();
202  }
203
204  public void clickOnCart() {
205      CartBTN.click();
206  }
207
208  public void clickOnAddToCart() {
209      addtocartBTN.click();
210  }
211
212  public void clickOnHome() {
213      HomeBTN.click();
214  }
215
216  public void clickOnLogout() {
217      logoutBTN.click();
218  }
219
220  public void clickOnPlaceOrder() {
221      placeOrderBTN.click();
222  }
223
224  public void clickOnOrders() {
225      OrdersBTN.click();
226  }
227
228  public void clickOnCart() {
229      CartBTN.click();
230  }
231
232  public void clickOnAddToCart() {
233      addtocartBTN.click();
234  }
235
236  public void clickOnHome() {
237      HomeBTN.click();
238  }
239
240  public void clickOnLogout() {
241      logoutBTN.click();
242  }
243
244  public void clickOnPlaceOrder() {
245      placeOrderBTN.click();
246  }
247
248  public void clickOnOrders() {
249      OrdersBTN.click();
250  }
251
252  public void clickOnCart() {
253      CartBTN.click();
254  }
255
256  public void clickOnAddToCart() {
257      addtocartBTN.click();
258  }
259
260  public void clickOnHome() {
261      HomeBTN.click();
262  }
263
264  public void clickOnLogout() {
265      logoutBTN.click();
266  }
267
268  public void clickOnPlaceOrder() {
269      placeOrderBTN.click();
270  }
271
272  public void clickOnOrders() {
273      OrdersBTN.click();
274  }
275
276  public void clickOnCart() {
277      CartBTN.click();
278  }
279
280  public void clickOnAddToCart() {
281      addtocartBTN.click();
282  }
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284  public void clickOnHome() {
285      HomeBTN.click();
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289      logoutBTN.click();
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293      placeOrderBTN.click();
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309      HomeBTN.click();
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313      logoutBTN.click();
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317      placeOrderBTN.click();
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321      OrdersBTN.click();
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329      addtocartBTN.click();
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332  public void clickOnHome() {
333      HomeBTN.click();
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336  public void clickOnLogout() {
337      logoutBTN.click();
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341      placeOrderBTN.click();
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345      OrdersBTN.click();
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349      CartBTN.click();
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352  public void clickOnAddToCart() {
353      addtocartBTN.click();
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356  public void clickOnHome() {
357      HomeBTN.click();
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360  public void clickOnLogout() {
361      logoutBTN.click();
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365      placeOrderBTN.click();
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369      OrdersBTN.click();
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377      addtocartBTN.click();
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413      placeOrderBTN.click();
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461      placeOrderBTN.click();
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616      addtocartBTN.click();
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620      HomeBTN.click();
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648      logoutBTN.click();
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724      placeOrderBTN.click();
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814      logoutBTN.click();
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918      HomeBTN.click();
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920      logoutBTN.click();
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934      addtocartBTN.click();
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938      HomeBTN.click();
939  }
939  public void clickOnLogout() {
940      logoutBTN.click();
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944      placeOrderBTN.click();
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948      OrdersBTN.click();
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953  public void clickOnAddToCart() {
954      addtocartBTN.click();
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957  public void clickOnHome() {
958      HomeBTN.click();
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960      logoutBTN.click();
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970      CartBTN.click();
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973  public void clickOnAddToCart() {
974      addtocartBTN.click();
975  }
976
977  public void clickOnHome() {
978      HomeBTN.click();
979  }
979  public void clickOnLogout() {
980      logoutBTN.click();
981  }
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983  public void clickOnPlaceOrder() {
984      placeOrderBTN.click();
985  }
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987  public void clickOnOrders() {
988      OrdersBTN.click();
989  }
989  public void clickOnCart() {
990      CartBTN.click();
991  }
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993  public void clickOnAddToCart() {
994      addtocartBTN.click();
995  }
996
997  public void clickOnHome() {
998      HomeBTN.click();
999  }
999  public void clickOnLogout() {
1000     logoutBTN.click();
1001 }
```

Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportshoes/Pages/ProductsPage.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

```
ProductsPage.java x
52     PageFactory.initElements(driver, this);
53     executor = (JavascriptExecutor) driver;
54 }
55
56 public void click_addtoCart() {
57     executor.executeScript("arguments[0].click()", addtocartBTN);
58 }
59
60 public void click_homebtn() {
61     HomeBTN.click();
62 }
63
64 public void click_cartbtn() {
65     CartBTN.click();
66 }
67
68 public void click_placeorder() {
69     executor.executeScript("arguments[0].click()", placeOrderBTN);
70 }
71
72 public void click_Ordersbtn() {
73     OrdersBTN.click();
74 }
75
76 public void click_Logoutbtn() {
77     logoutBTN.click();
78 }
79
80 }
```

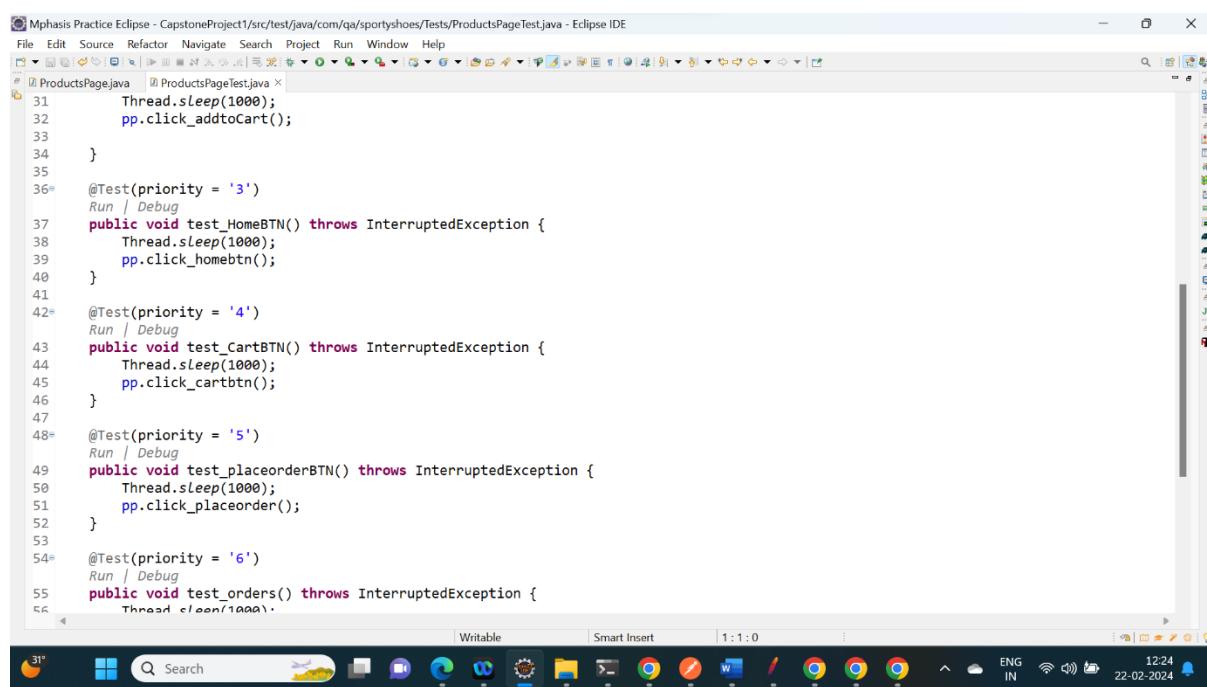
Capstone Project



Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/ProductsPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
ProductsPage.java ProductsPageTest.java
1 package com.qa.sportyshoes.Tests;
2
3 *import org.testng.annotations.AfterClass;
4
5 Run ALL
6 public class ProductsPageTest extends TestBase {
7
8     LoginPage lp;
9     ProductsPage pp;
10
11     @BeforeClass
12     public void start_browser() {
13         openBrowser();
14         lp = new LoginPage(driver);
15         pp = new ProductsPage(driver);
16     }
17
18     @Test(priority = '1')
19     Run | Debug
20     public void test_user_login() throws InterruptedException {
21         Thread.sleep(1000);
22         lp.user_login();
23     }
24
25     @Test(priority = '2')
26     Run | Debug
27     public void test_product_addtoCart() throws InterruptedException {
28         Thread.sleep(1000);
29         pp.click_addtoCart();
30     }
31
32 }
```

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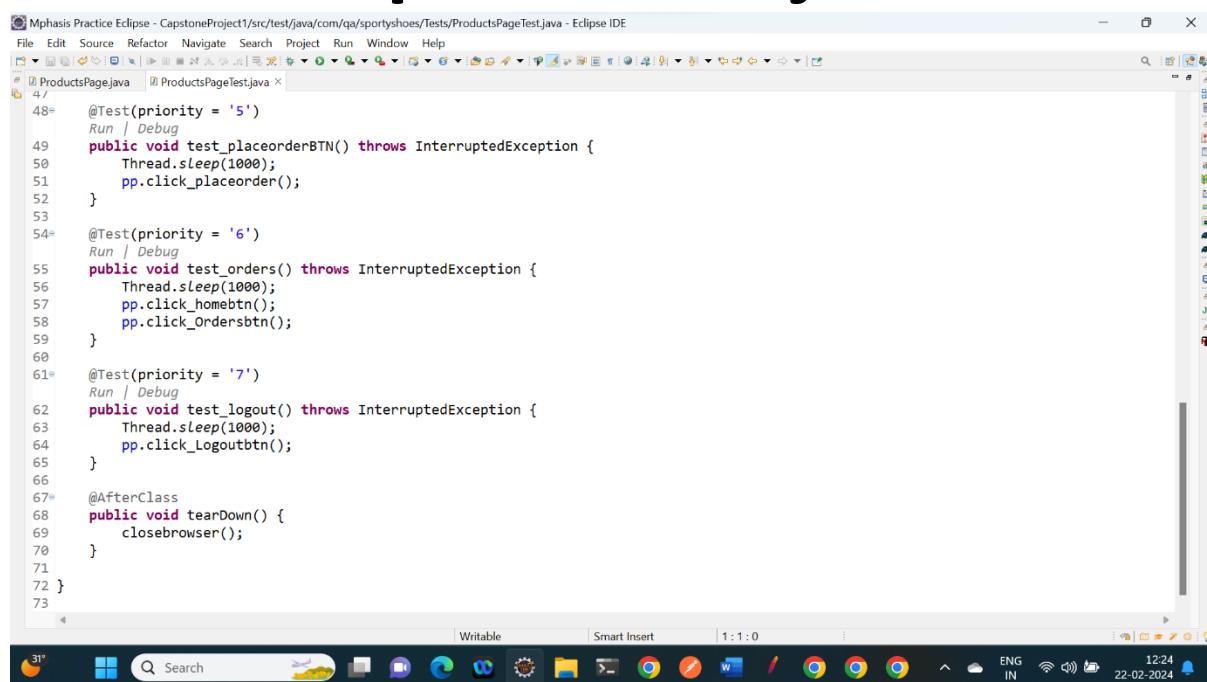


Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/ProductsPageTest.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
ProductsPage.java ProductsPageTest.java
31     pp.click_addtoCart();
32 }
33
34     @Test(priority = '3')
35     Run | Debug
36     public void test_HomeBTN() throws InterruptedException {
37         Thread.sleep(1000);
38         pp.click_homebtn();
39     }
40
41     @Test(priority = '4')
42     Run | Debug
43     public void test_CartBTN() throws InterruptedException {
44         Thread.sleep(1000);
45         pp.click_cartbtn();
46     }
47
48     @Test(priority = '5')
49     Run | Debug
50     public void test_placeorderBTN() throws InterruptedException {
51         Thread.sleep(1000);
52         pp.click_placeorder();
53     }
54
55     @Test(priority = '6')
56     Run | Debug
57     public void test_orders() throws InterruptedException {
58         Thread.sleep(1000);
59     }
60 }
```

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Capstone Project

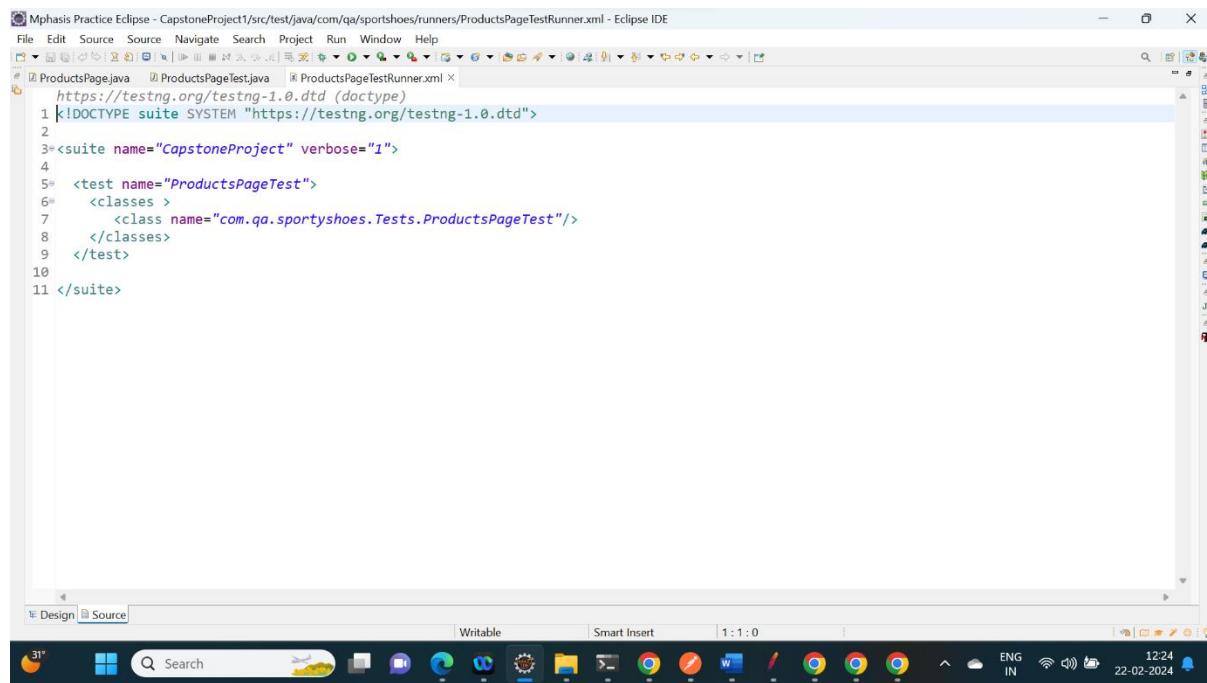


The screenshot shows the Eclipse IDE interface with the title bar "Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/Tests/ProductsPageTest.java - Eclipse IDE". The main area displays Java code for a test class named ProductsPageTest. The code includes several test methods annotated with @Test and @Priority values (5, 6, 7), and an @AfterClass method for tearDown. The code uses Thread.sleep(1000) and pp.click methods. The status bar at the bottom shows the date and time as 22-02-2024 12:24.

```
48+     @Test(priority = '5')
49     Run | Debug
50     public void test_placeorderBTN() throws InterruptedException {
51         Thread.sleep(1000);
52         pp.click_placeorder();
53     }
54+     @Test(priority = '6')
55     Run | Debug
56     public void test_orders() throws InterruptedException {
57         Thread.sleep(1000);
58         pp.click_homebtn();
59         pp.click_Ordersbtn();
60     }
61+     @Test(priority = '7')
62     Run | Debug
63     public void test_logout() throws InterruptedException {
64         Thread.sleep(1000);
65         pp.click_Logoutbtn();
66     }
67+     @AfterClass
68     public void tearDown() {
69         closebrowser();
70     }
71 }
72 }
73 }
```

Step 5:

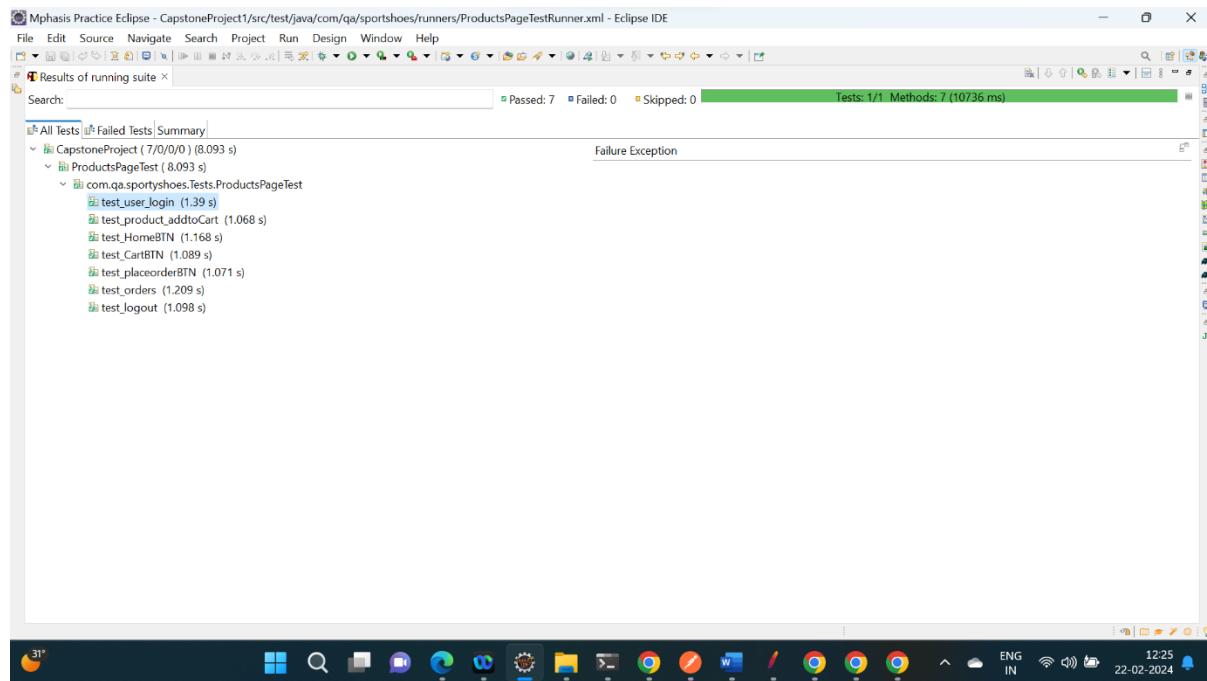
Create a RunnerFile to Run the ProductsPageTest and run the runner file.



The screenshot shows the Eclipse IDE interface with the title bar "Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportyshoes/runners/ProductsPageTestRunner.xml - Eclipse IDE". The main area displays XML code for a TestNG runner file named ProductsPageTestRunner.xml. It defines a suite named "CapstoneProject" with a verbose level of 1, containing a test named "ProductsPageTest" with a class name of "com.qa.sportyshoes.Tests.ProductsPageTest". The status bar at the bottom shows the date and time as 22-02-2024 12:24.

```
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="CapstoneProject" verbose="1">
    <test name="ProductsPageTest">
        <classes>
            <class name="com.qa.sportyshoes.Tests.ProductsPageTest"/>
        </classes>
    </test>
</suite>
```

Capstone Project



The screenshot shows the Eclipse IDE interface with the title bar "Mphasis Practice Eclipse - CapstoneProject1/src/test/java/com/qa/sportshoes/runners/ProductsPageTestRunner.xml - Eclipse IDE". The menu bar includes File, Edit, Source, Navigate, Search, Project, Run, Design, Window, Help. The toolbar has various icons for file operations. A central pane titled "Console X" shows the command-line output of a failed test run. The output includes:

```
terminated> CapstoneProject1/src/test/java/com/qa/sportshoes/runners/ProductsPageTestRunner.xml [TestNG] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (22-Feb-2024, 12:24:50 pm – 12:25:02 pm) [pid: 18888]
Feb 22, 2024 12:24:53 PM org.openqa.selenium.devicools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 121
Feb 22, 2024 12:24:53 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 121.0.6167.185. You may need to include a dependency on a specific version of the CDP using
Feb 22, 2024 12:25:01 PM org.openqa.selenium.remote.http.WebSocket$Listener onError
WARNING: Connection reset
java.net.SocketException: Connection reset
    at java.base/sun.nio.ch.SocketChannelImpl.throwConnectionReset(SocketChannelImpl.java:394)
    at java.base/sun.nio.ch.SocketChannelImpl.read(SocketChannelImpl.java:426)
    at io.netty.buffer.PooledByteBuf.setBytes(PooledByteBuf.java:256)
    at io.netty.buffer.AbstractByteBuf.writeBytes(AbstractByteBuf.java:1132)
    at io.netty.channel.socket.nio.NioSocketChannel.doReadBytes(NioSocketChannel.java:357)
    at io.netty.channel.nio.AbstractNioByteChannel$NioByteUnsafe.read(AbstractNioByteChannel.java:151)
    at io.netty.channel.nio.NioEventLoop.processSelectedKey(NioEventLoop.java:788)
    at io.netty.channel.nio.NioEventLoop.processSelectedKeysOptimized(NioEventLoop.java:724)
    at io.netty.channel.nio.NioEventLoop.processSelectedKeys(NioEventLoop.java:656)
    at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:562)
    at io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.java:997)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.base/java.lang.Thread.run(Thread.java:833)

=====
CapstoneProject
Total tests run: 7, Passes: 7, Failures: 0, Skips: 0
=====
```

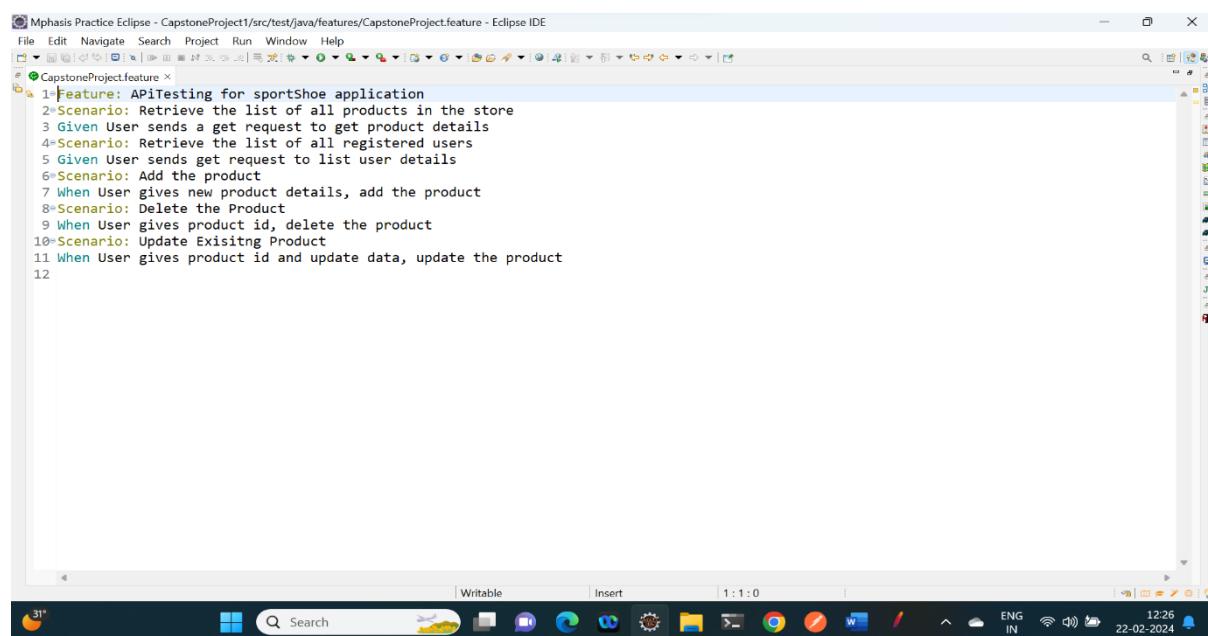
The status bar at the bottom shows system information like battery level, network, and date/time (22-02-2024).

Capstone Project

2. RestAssured with Cucumber:

Step 1:

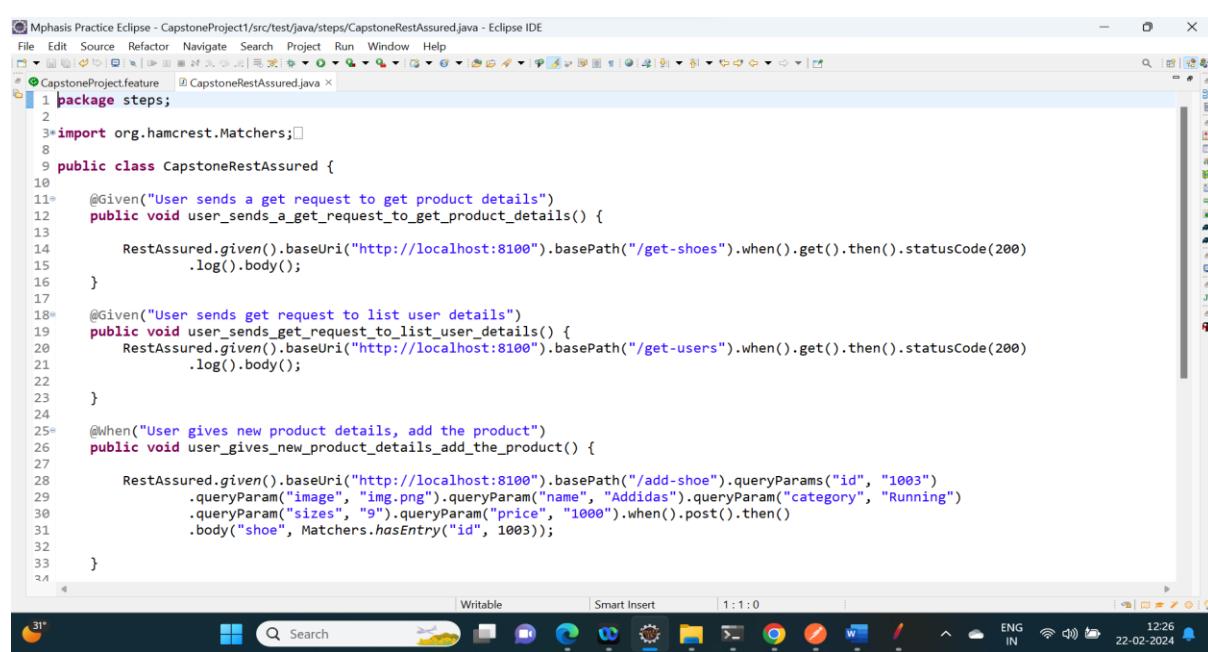
Create a feature file and add scenarios to it.



```
1 Feature: API Testing for sportShoe application
2 Scenario: Retrieve the list of all products in the store
3 Given User sends a get request to get product details
4 Scenario: Retrieve the list of all registered users
5 Given User sends get request to list user details
6 Scenario: Add the product
7 When User gives new product details, add the product
8 Scenario: Delete the Product
9 When User gives product id, delete the product
10 Scenario: Update Existing Product
11 When User gives product id and update data, update the product
12
```

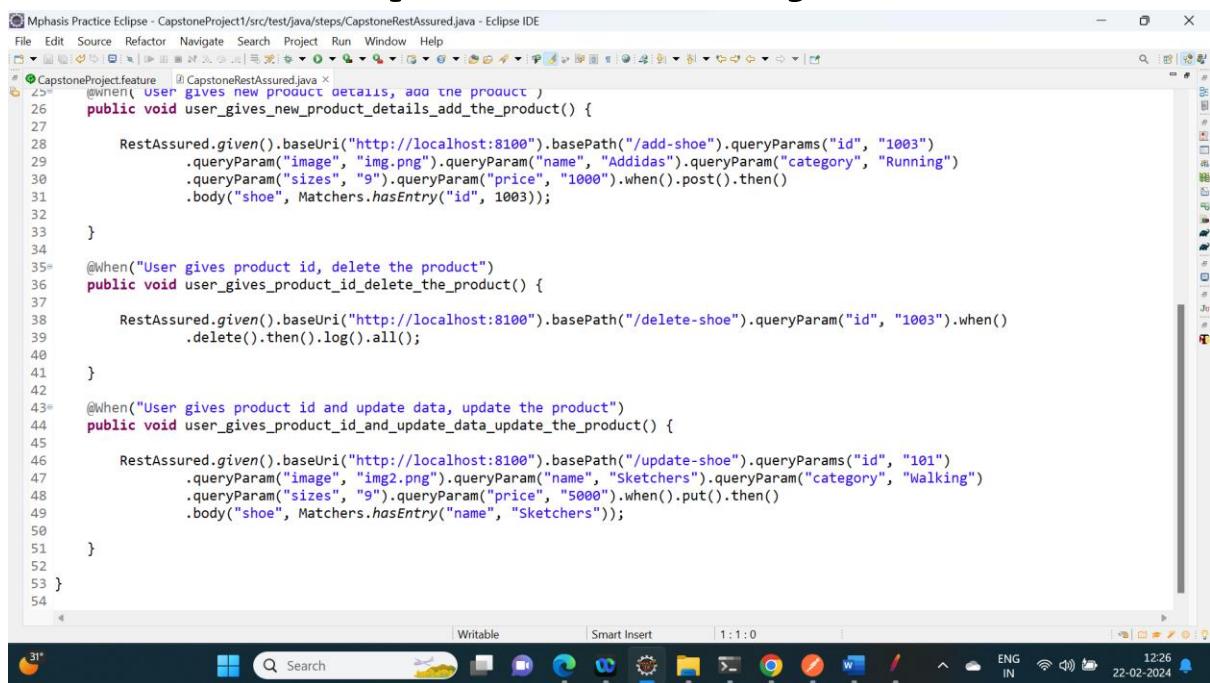
Step 2:

Create java class to test api using RestAssured.



```
1 package steps;
2
3 import org.hamcrest.Matchers;
4
5 public class CapstoneRestAssured {
6
7     @Given("User sends a get request to get product details")
8     public void user_sends_a_get_request_to_get_product_details() {
9
10         RestAssured.given().baseUri("http://localhost:8100").basePath("/get-shoes").when().get().then().statusCode(200)
11             .log().body();
12     }
13
14     @Given("User sends get request to list user details")
15     public void user_sends_get_request_to_list_user_details() {
16
17         RestAssured.given().baseUri("http://localhost:8100").basePath("/get-users").when().get().then().statusCode(200)
18             .log().body();
19     }
20
21     @When("User gives new product details, add the product")
22     public void user_gives_new_product_details_add_the_product() {
23
24         RestAssured.given().baseUri("http://localhost:8100").basePath("/add-shoe").queryParams("id", "1003")
25             .queryParam("image", "img.png").queryParam("name", "Adidas").queryParam("category", "Running")
26             .queryParam("sizes", "9").queryParam("price", "1000").when().post().then()
27             .body("shoe", Matchers.hasEntry("id", 1003));
28     }
29
30 }
```

Capstone Project



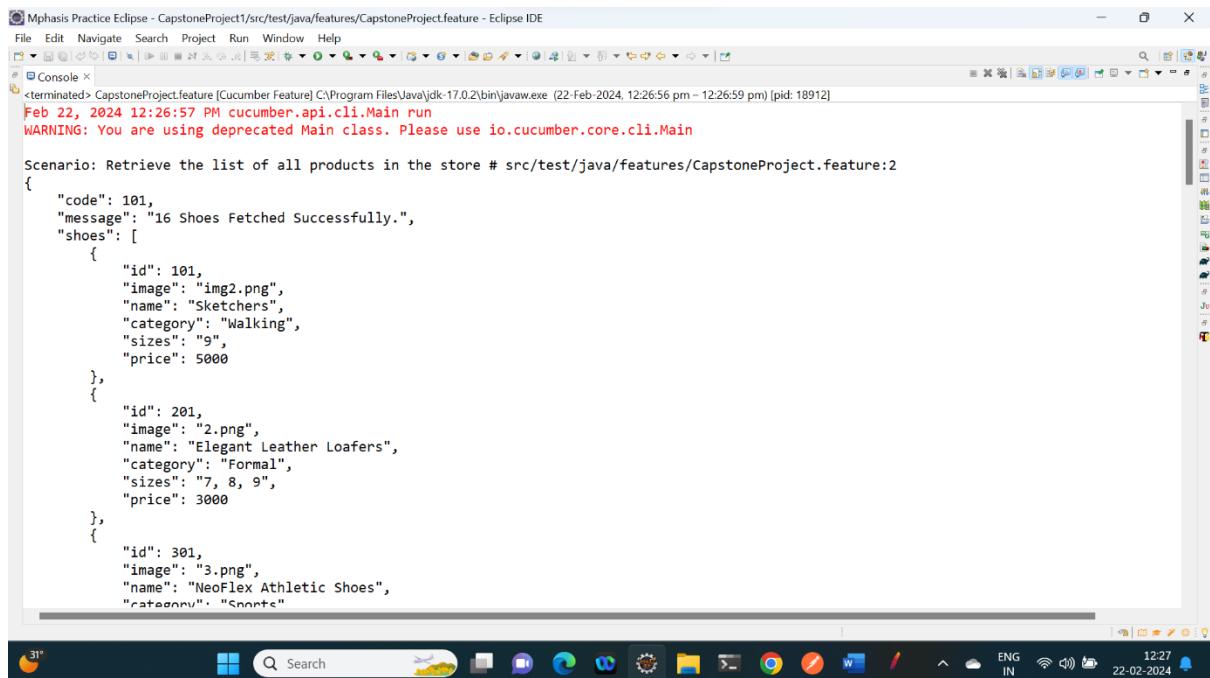
Mphasis Practice Eclipse - CapstoneProject1/src/test/java/steps/CapstoneRestAssured.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
CapstoneProject.feature [ CapstoneRestAssured.java ]
25  @when(" user gives new product details, add the product ")
26  public void user_gives_new_product_details_add_the_product() {
27
28      RestAssured.given().baseUri("http://localhost:8100").basePath("/add-shoe").queryParams("id", "1003")
29          .queryParam("image", "img.png").queryParam("name", "Adidas").queryParam("category", "Running")
30          .queryParam("sizes", "9").queryParam("price", "1000").when().post().then()
31          .body("shoe", Matchers.hasEntry("id", 1003));
32
33  }
34
35  @when("User gives product id, delete the product")
36  public void user_gives_product_id_delete_the_product() {
37
38      RestAssured.given().baseUri("http://localhost:8100").basePath("/delete-shoe").queryParam("id", "1003").when()
39          .delete().then().log().all();
40
41  }
42
43  @when("User gives product id and update data, update the product")
44  public void user_gives_product_id_and_update_data_update_the_product() {
45
46      RestAssured.given().baseUri("http://localhost:8100").basePath("/update-shoe").queryParams("id", "101")
47          .queryParam("image", "img2.png").queryParam("name", "Sketchers").queryParam("category", "Walking")
48          .queryParam("sizes", "9").queryParam("price", "5000").when().put().then()
49          .body("shoe", Matchers.hasEntry("name", "Sketchers"));
50
51  }
52
53 }
```

Writable Smart Insert 1:1:0 ENG IN 12:26 22-02-2024

Step 3:

Run the Feature file and validate the output.



Mphasis Practice Eclipse - CapstoneProject1/src/test/java/features/CapstoneProject.feature - Eclipse IDE

```
File Edit Navigate Search Project Run Window Help
Console X
terminated> CapstoneProject.feature [Cucumber Feature] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (22-Feb-2024, 12:26:56 pm - 12:26:59 pm) [pid: 18912]
Feb 22, 2024 12:26:57 PM cucumber.api.cli.Main run
WARNING: You are using deprecated Main class. Please use io.cucumber.core.cli.Main

Scenario: Retrieve the list of all products in the store # src/test/java/features/CapstoneProject.feature:2
{
    "code": 101,
    "message": "16 Shoes Fetched Successfully.",
    "shoes": [
        {
            "id": 101,
            "image": "img2.png",
            "name": "Sketchers",
            "category": "Walking",
            "sizes": "9",
            "price": 5000
        },
        {
            "id": 201,
            "image": "2.png",
            "name": "Elegant Leather Loafers",
            "category": "Formal",
            "sizes": "7, 8, 9",
            "price": 3000
        },
        {
            "id": 301,
            "image": "3.png",
            "name": "NeoFlex Athletic Shoes",
            "category": "Sports"
        }
    ]
}
```

ENG IN 12:27 22-02-2024

Capstone Project

```
Mphasis Practice Eclipse - CapstoneProject1/src/test/java/features/CapstoneProject.feature - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Console X
<terminated> CapstoneProject.feature [Cucumber Feature] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (22-Feb-2024, 12:26:56 pm - 12:26:59 pm) [pid: 18912]
    "name": "NeoFlex Athletic Shoes",
    "category": "Sports",
    "sizes": "7, 8, 9, 10",
    "price": 4500
},
{
    "id": 401,
    "image": "4.png",
    "name": "PowerStride Training Shoes",
    "category": "Sports",
    "sizes": "6, 7, 8, 9",
    "price": 6000
},
{
    "id": 501,
    "image": "5.png",
    "name": "StreetRunner Urban Sneakers",
    "category": "Sports",
    "sizes": "7, 9",
    "price": 4000
},
{
    "id": 601,
    "image": "6.png",
    "name": "VentureHike Trail Shoes",
    "category": "Sports",
    "sizes": "6, 8, 9",
    "price": 2500
}
}

31°
Search
ENG IN 12:27 22-02-2024
```

```
Mphasis Practice Eclipse - CapstoneProject1/src/test/java/features/CapstoneProject.feature - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Console X
<terminated> CapstoneProject.feature [Cucumber Feature] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (22-Feb-2024, 12:26:56 pm - 12:26:59 pm) [pid: 18912]
    },
    {
        "id": 121,
        "image": "1.png",
        "name": "Sketchers",
        "category": "Running",
        "sizes": "9",
        "price": 5000
    },
    {
        "id": 1003,
        "image": "img.png",
        "name": "Addidas",
        "category": "Running",
        "sizes": "9",
        "price": 1000
    },
    {
        "id": 1003,
        "image": "img.png",
        "name": "Addidas",
        "category": "Running",
        "sizes": "9",
        "price": 1000
    }
}
]

Given User sends a get request to get product details # steps.CapstoneRestAssured.user_sends_a_get_request_to_get_product_details()
```

```
31°
Search
ENG IN 12:27 22-02-2024
```

Capstone Project

Mphasis Practice Eclipse - CapstoneProject1/src/test/java/features/CapstoneProject.feature - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Console x

```
<terminated> CapstoneProject.feature [Cucumber Feature] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (22-Feb-2024, 12:26:56 pm - 12:26:59 pm) [pid: 18912]
```

}

}

Given User sends a get request to get product details # steps.CapstoneRestAssured.user_sends_a_get_request_to_get_product_details()

Scenario: Retrieve the list of all registered users # src/test/java/features/CapstoneProject.feature:4

{

"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"

}

]

}

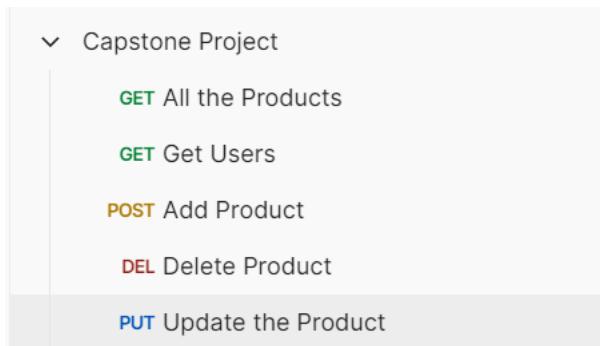
Given User sends get request to list user details # steps.CapstoneRestAssured.user_sends_get_request_to_list_user_details()

Capstone Project

3. API Testing using PostMan:

Step 1:

Create a Collection.



Step 2:

Create a Get Request to Retrieve the list of all products in the store.

A screenshot of the Postman interface showing a GET request for 'http://localhost:8100/get-shoes'. The 'Tests' tab is selected, displaying a JavaScript test script:

```
1 pm.test("Status code is 200", function () {  
2     | pm.response.to.have.status(200);  
3 });
```

The response body is displayed in JSON format:

```
1 {  
2     "code": 101,  
3     "message": "12 Shoes Fetched Successfully.",  
4     "shoes": [  
5         {  
6             "id": 101,  
7             "image": "1.png",  
8             "name": "BlueWave Running Shoes",  
9             "category": "Sports",  
10            "sizes": "7, 8, 9",  
11            "....": "..."  
12        }  
13    ]  
14}
```

Capstone Project

Step 3: Create Get request to Retrieve the list of users.

The screenshot shows the Postman interface with the following details:

- URL:** http://localhost:8100/get-users
- Method:** GET
- Tests Tab:** Contains a JavaScript test script:

```
1 pm.test("Status code is 200", function () {  
2     pm.response.to.have.status(200);  
3});
```
- Body Tab:** Displays a JSON response:

```
1 {"  
2     "code": 101,  
3     "message": "3 Users Fetched Successfully.",  
4     "users": [  
5         {"  
6             "name": "John Watson",  
7             "email": "john@example.com",  
8             "password": "john123"  
9         },
```
- Status Bar:** 200 OK 20 ms 440 B

Step 4: Create a Post Request to add the Product.

The screenshot shows the Postman interface with the following details:

- URL:** http://localhost:8100/add-shoe?id=121&image=1.png&name=Sketchers&category=Running&sizes=9&price=5000
- Method:** POST
- Params Tab:** Contains a table of query parameters:

Key	Value	Description	Bulk Edit
id	121		
image	1.png		
name	Sketchers		
category	Running		
sizes	9		
price	5000		
- Status Bar:** 200 OK 7 ms 317 B

Capstone Project

Step 5: Create Delete Request to delete Product.

The screenshot shows the Postman interface for a DELETE request. The URL is `http://localhost:8100/delete-shoe?id=121`. The response status is 200 OK with 7 ms latency and 227 B size. The response body is:

```
1 {
2   "code": 101,
3   "message": "Shoe with ID 121 Deleted Successfully."
4 }
```

Step 6: Create a Put Request to update the Product.

The screenshot shows the Postman interface for a PUT request. The URL is `http://localhost:8100/update-shoe?id=121&name=SketchersShoes&category=Walking&sizes=8,9,10&price=1500&image=myimage.png`. The response status is 200 OK with 10 ms latency and 340 B size. The response body is:

```
1 {
```

Capstone Project

Step 7:

Now Run the Collection and Validate the OutPut.

Run order

Deselect All | Select All | Reset

- GET** All the Products
- GET** Get Users
- POST** Add Product
- DEL** Delete Product
- PUT** Update the Product
- PUT** http://localhost:8100/update-shoe

Run manually
Run this collection in the Collection Runner.

Schedule runs
Periodically run collection at a specified time on the Postman Cloud.

Automate runs via CLI
Configure CLI command to run on your build pipeline.

Run configuration

Iterations: 1

Delay: 0 ms

Data: Select File

Persist responses for a session ⓘ

> Advanced settings

Run Capstone Project

Run Capstone Project

Capstone Project - Run results

Ran today at 12:30:32 · [View all runs](#)

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	DEV	1	640ms	5	4 ms

RUN SUMMARY

[View Results](#)

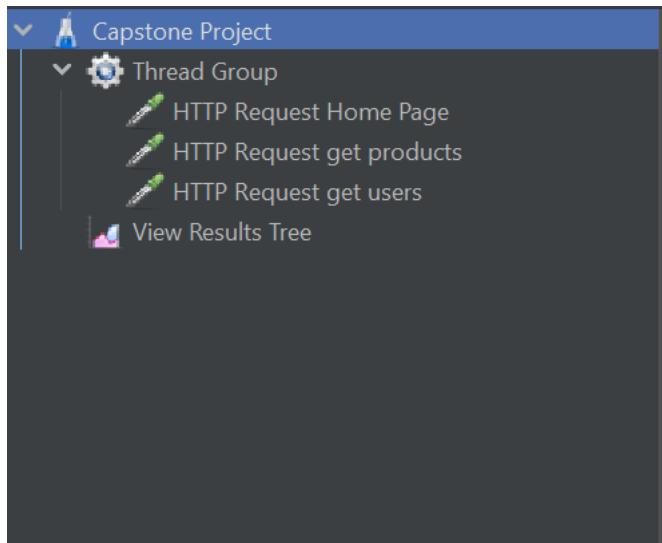
Action	Method	URL	Status	Count
GET	All the Products		Pass Status code is 200	1 0
GET	Get Users		Pass Status code is 200	1 0
POST	Add Product		Pass Status code is 200	1 0
DELETE	Delete Product		Pass Status code is 200	1 0
PUT	Update the Product		Pass Status code is 200	1 0

Capstone Project

4. Load Testing using Jmeter:

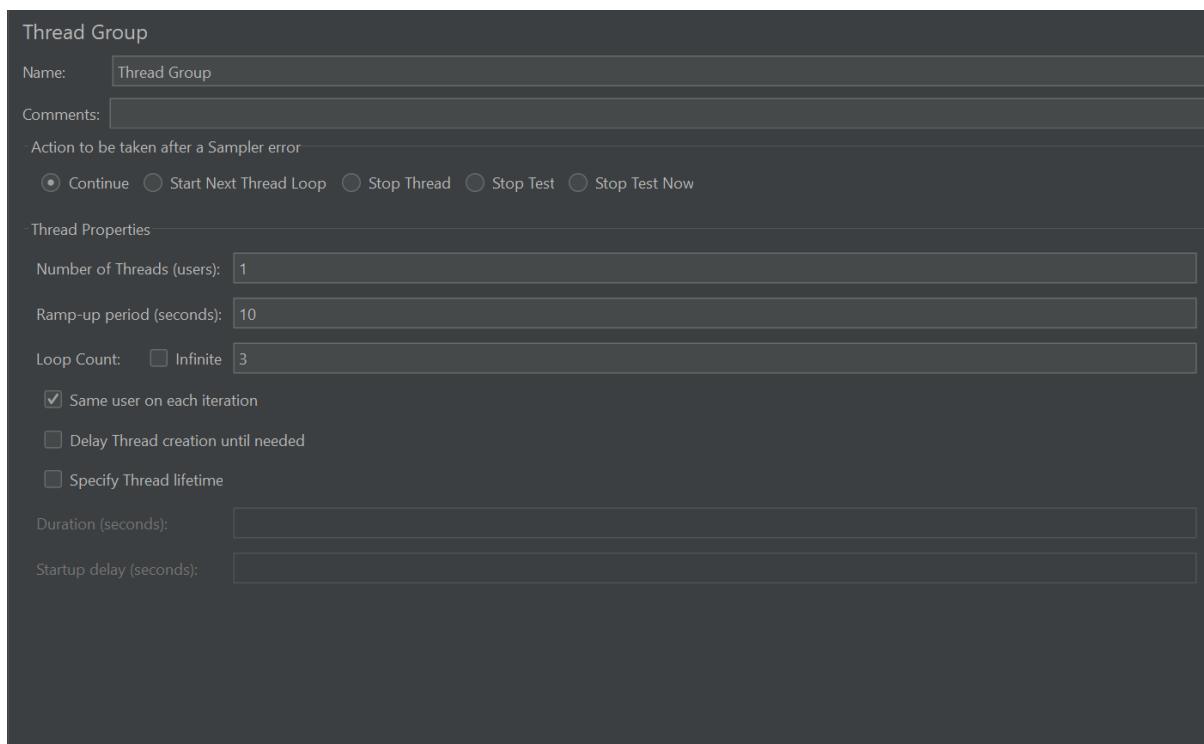
Step 1:

Create New TestPlan Capstone Project:



Step 2:

Create a ThreadGroup and add users as required.



Capstone Project

Step 3:

In ThreadGroup add HttpSampler Requests to get homepage,productdetails and userdetails.

HTTP Request

Name: HTTP Request Home Page

Comments:

Basic Advanced

Web Server

Protocol [http]: http Server Name or IP: localhost Port Number: 8100

HTTP Request

GET Path: Content encoding:

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

Parameters Body Data Files Upload

Send Parameters With the Request:

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

HTTP Request

Name: HTTP Request get products

Comments:

Basic Advanced

Web Server

Protocol [http]: http Server Name or IP: localhost Port Number: 8100

HTTP Request

GET Path: /get-shoes Content encoding:

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

Parameters Body Data Files Upload

Send Parameters With the Request:

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

Capstone Project

HTTP Request

Name:

Comments:

Basic Advanced

Web Server

Protocol [http]: Server Name or IP: Port Number:

HTTP Request

Method: Path: Content encoding:

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

Parameters Body Data Files Upload

Send Parameters With the Request:

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

Step 4: Add Listners to the TestPlan and See the results.

CapstoneProject.jmx (F:\MPHASIS Practice Exersie\Umeter Files\CapstoneProject.jmx) - Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

Test Plan

Thread Group

- HTTP Request Home Page
- HTTP Request get products
- HTTP Request get users

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file

Filename Browse... Log/Display Only: Errors Successes Configure

Search: Case sensitive Regular exp. Search Reset

Text

- HTTP Request Home Page
- HTTP Request get products
- HTTP Request get users
- HTTP Request Home Page
- HTTP Request get products
- HTTP Request get users
- HTTP Request Home Page
- HTTP Request get products
- HTTP Request get users

Sampler result Request Response data

Thread Name: Thread Group 1-1
Sample Start: 2024-02-22 11:49:16 IST
Load time: 2
Connect Time: 0
Latency: 2
Size in bytes: 1447
Sent bytes: 116
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

30°C Haze

Search

11:49 22-02-2024 ENG IN

GitHub Link: [chandumj/simplilearnprojects](https://github.com/chandumj/simplilearnprojects) (github.com)