

CAPSTONE PROJECT (2)

Capstone Project: E-Commerce

Project Name: Automation Testing for Nixonex E-commerce

Domain: E-Commerce Application Project

Description: This project aims to automate testing of the <https://www.demoblaze.com/>

PROGRAM CODE :

execution.java

```
package pages;
```

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

```
import org.openqa.selenium.chrome.ChromeDriver;
```

```
import org.testng.annotations.AfterMethod;
```

```
import org.testng.annotations.BeforeMethod;
```

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

```
public class executionClass {
```

```
    WebDriver driver;
```

```
    HomePage homePage;
```

```
    AddtoCart addtoCart;
```

```
    //extentreport extentReport;
```

```
    Screenshots screenshot;
```

```
    @BeforeMethod
```

```
    public void setUp() {
```

```
        System.setProperty("webdriver.chrome.driver","D:\\Kousi\\Capstone\\chromedriver.exe");
```

```

        driver = new ChromeDriver();
        driver.get("https://www.demoblaze.com/");
        homePage = new HomePage(driver);
        addToCart = new AddtoCart(driver);
        screenshot = new Screenshots();
    }

    @Test(priority=1)
    public void signupNew() {
        homePage.signupPage("test@123", "Pass1245");
        extentreport extentReport= new extentreport("SignUp");
        extentReport.logPass("Signup successful");
        extentReport.generateReport();
    }

    @Test(priority=2)
    public void login() {
        homePage.loginPage("test@123", "Pass1245");
        extentreport extentReport= new extentreport("Login");
        extentReport.logPass("Login successful");
        extentReport.generateReport();
    }

    @Test(priority=3)
    public void checkout() {
        addToCart.productselection();
        addToCart.checkout("Test", "USA", "Newyork", "12345678", "12", "2025");
        extentreport extentReport= new extentreport("Checkout");
        extentReport.logPass("Checkout successful");
        extentReport.generateReport();
    }

    @AfterMethod
    public void tearDown() {
        screenshot.captureScreenshot(driver, "screen");
    }

```

```

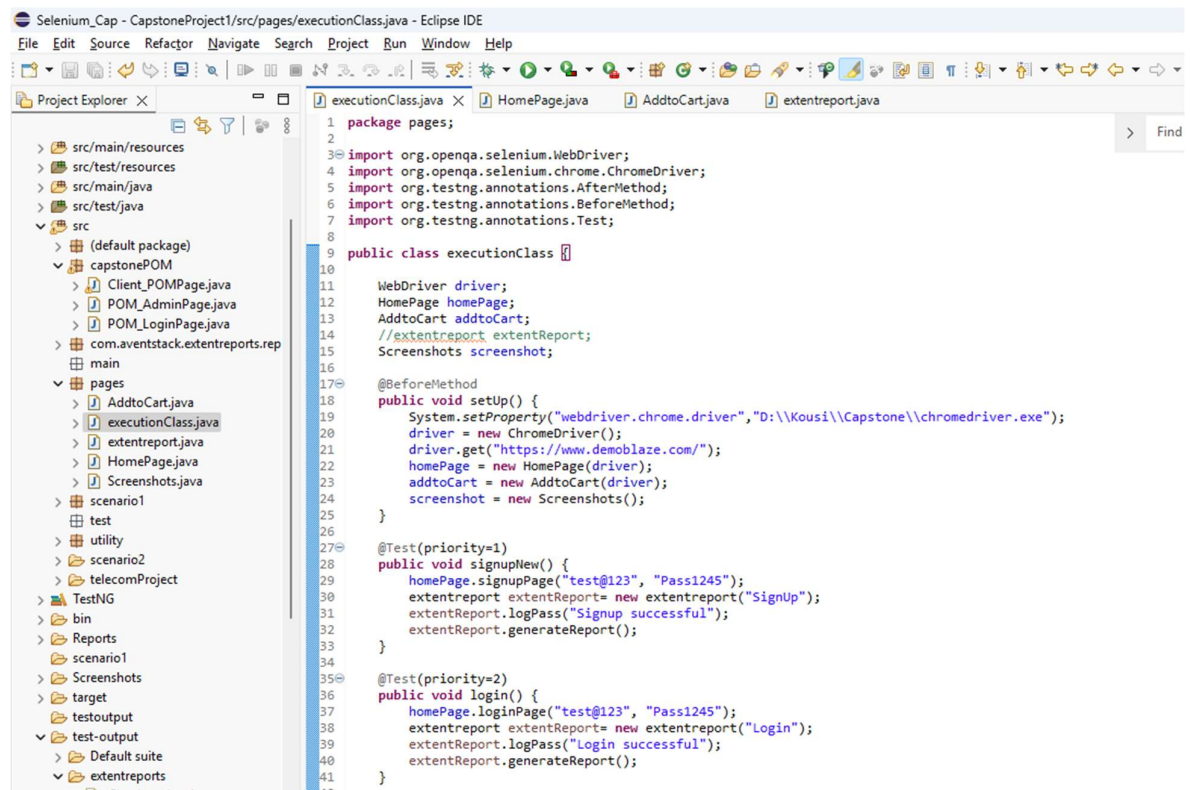
        //extentReport.generateReport();

        driver.quit();

    }

}

```

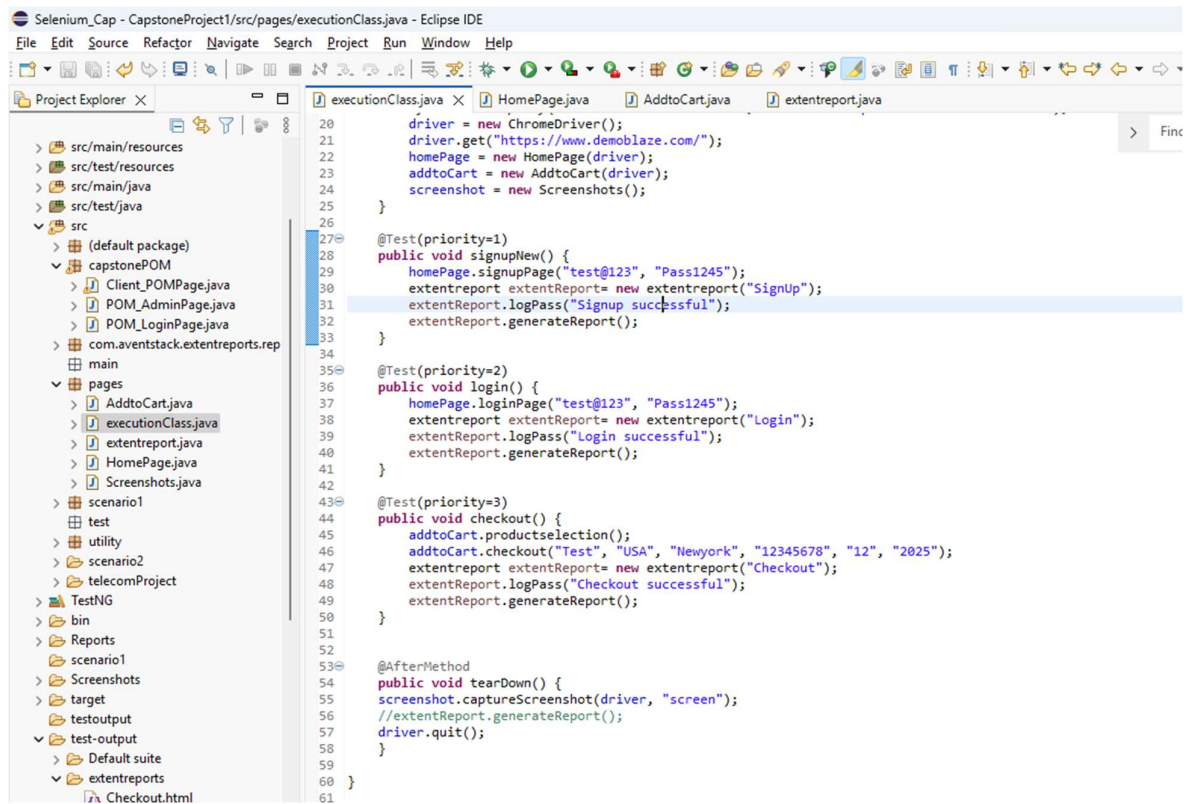


The screenshot shows the Eclipse IDE interface. The title bar reads "Selenium_Cap - CapstoneProject1/src/pages/executionClass.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development tools. The Project Explorer on the left shows the project structure: src/main/resources, src/main/java, src/test/java, and src. Under src, there are folders for (default package), capstonePOM, com.aventstack.extentreports.rep, main, pages, scenario1, test, utility, scenario2, telecomProject, TestNG, bin, Reports, scenario1, Screenshots, target, testoutput, test-output, Default suite, and extentreports. The pages folder is expanded, showing AddtoCart.java, executionClass.java (selected), extentreport.java, HomePage.java, and Screenshots.java. The main editor displays the code for executionClass.java, which includes package declarations, imports for Selenium WebDriver, ChromeDriver, and TestNG annotations, and two test methods: setUp() and login().

```

1 package pages;
2
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.chrome.ChromeDriver;
5 import org.testng.annotations.AfterMethod;
6 import org.testng.annotations.BeforeMethod;
7 import org.testng.annotations.Test;
8
9 public class executionClass {
10
11     WebDriver driver;
12     HomePage homePage;
13     AddtoCart addtoCart;
14     //extentreport extentReport;
15     Screenshots screenshot;
16
17     @BeforeMethod
18     public void setUp() {
19         System.setProperty("webdriver.chrome.driver", "D:\\Kousi\\Capstone\\chromedriver.exe");
20         driver = new ChromeDriver();
21         driver.get("https://www.demoblaze.com/");
22         homePage = new HomePage(driver);
23         addtoCart = new AddtoCart(driver);
24         screenshot = new Screenshots();
25     }
26
27     @Test(priority=1)
28     public void signupNew() {
29         homePage.signupPage("test@123", "Pass1245");
30         extentReport extentReport= new extentreport("SignUp");
31         extentReport.logPass("Signup successful");
32         extentReport.generateReport();
33     }
34
35     @Test(priority=2)
36     public void login() {
37         homePage.loginPage("test@123", "Pass1245");
38         extentReport extentReport= new extentreport("Login");
39         extentReport.logPass("Login successful");
40         extentReport.generateReport();
41     }
42 }

```



HomePage.java

package pages;

import java.time.Duration;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.PageFactory;

import org.openqa.selenium.support.ui.ExpectedConditions;

import org.openqa.selenium.support.ui.WebDriverWait;

public class HomePage {

WebDriver driver;

```

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

@FindBy(id="login2") private WebElement login;
@FindBy(id="signin2") private WebElement signup;

public WebElement getLogin() {
    return login;
}

public WebElement getSignup() {
    return signup;
}

public void signupPage(String UN,String Pass)
{
    getSignup().click();

    WebDriverWait wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;

    WebElement elementUserName =
wait.until(ExpectedConditions.elementToBeClickable(By.id("sign-username")));

    elementUserName.sendKeys(UN);

    WebElement elementPassword =
wait.until(ExpectedConditions.elementToBeClickable(By.id("sign-password")));

    elementPassword.sendKeys(Pass);

    WebElement elementSignUpButton =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("/html/body/div[2]/div/div/div[3]/button[2]")));

    elementSignUpButton.click();
}

public void loginPage(String UN,String Pass)
{

```

```

        getLogin().click();

        WebDriverWait wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;

        WebElement elementUserName =
wait.until(ExpectedConditions.elementToBeClickable(By.id("loginusername")));

        elementUserName.sendKeys(UN);


        WebElement elementPassword =
wait.until(ExpectedConditions.elementToBeClickable(By.id("loginpassword")));

        elementPassword.sendKeys(Pass);

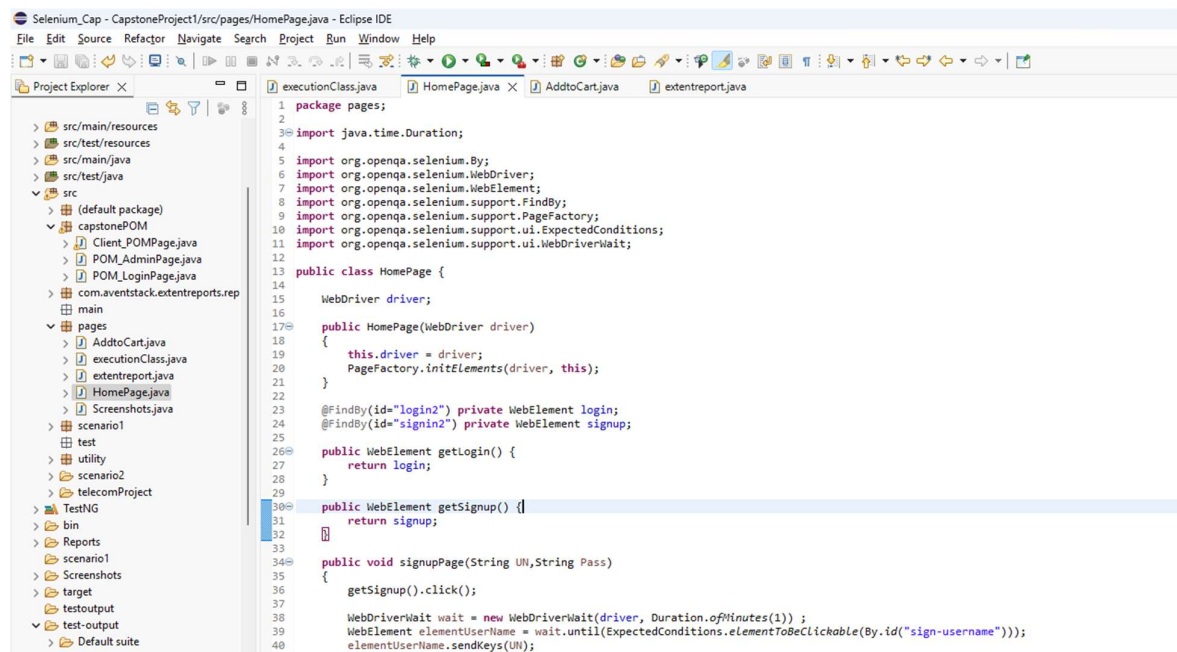

        WebElement elementLoginButton =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("/html/body/div[3]/div/div/div[3]/button[2]")));

        elementLoginButton.click();

    }

}

```



```

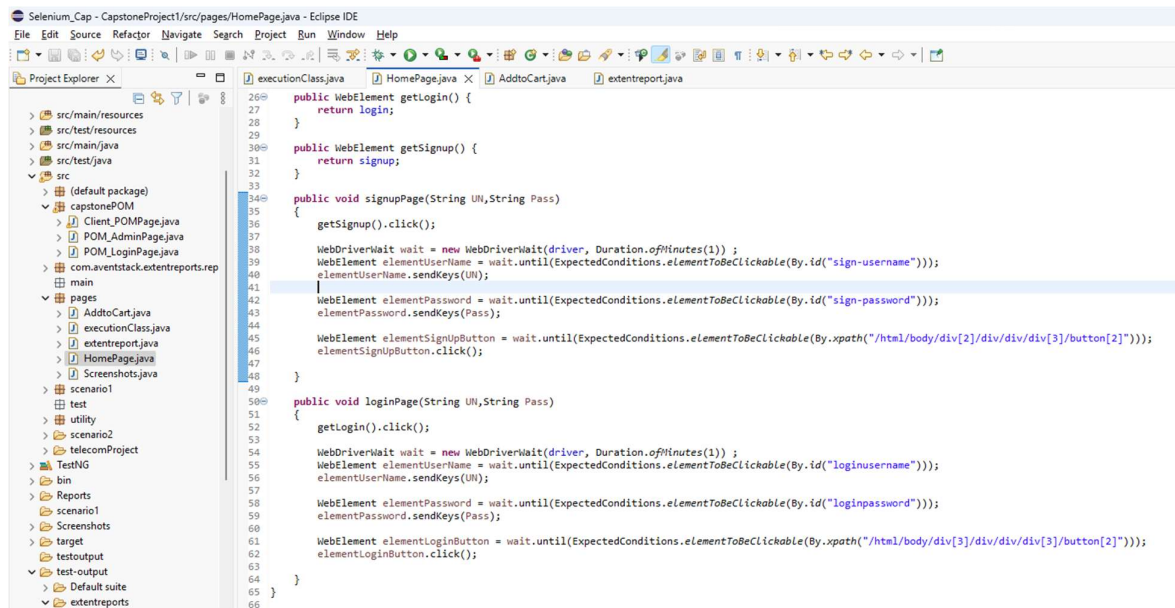
Selenium_Cap - CapstoneProject1/src/pages/HomePage.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer X
src/main/resources
src/test/resources
src/main/java
src/test/java
src
  (default package)
  capstonePOM
    Client_POMPage.java
    POM_AdminPage.java
    POM_LoginPage.java
  com.aventstack.extentreports.rep
  main
  pages
    AddtoCart.java
    executionClass.java
    extentreport.java
    HomePage.java
    Screenshots.java
  scenario1
  test
  utility
  scenario2
  telecomProject
  TestNG
  bin
  Reports
  scenario1
  Screenshots
  target
  testoutput
  test-output
  Default suite

executionClass.java X HomePage.java X AddtoCart.java X extentreport.java

1 package pages;
2
3 import java.time.Duration;
4
5 import org.openqa.selenium.By;
6 import org.openqa.selenium.WebDriver;
7 import org.openqa.selenium.WebElement;
8 import org.openqa.selenium.support.FindBy;
9 import org.openqa.selenium.support.PageFactory;
10 import org.openqa.selenium.support.ui.ExpectedConditions;
11 import org.openqa.selenium.support.ui.WebDriverWait;
12
13 public class HomePage {
14
15     WebDriver driver;
16
17     public HomePage(WebDriver driver)
18     {
19         this.driver = driver;
20         PageFactory.initElements(driver, this);
21     }
22
23     @FindBy(id="login2") private WebElement login;
24     @FindBy(id="signin2") private WebElement signup;
25
26     public WebElement getLogin() {
27         return login;
28     }
29
30     public WebElement getSignup() {
31         return signup;
32     }
33
34     public void signupPage(String UN,String Pass)
35     {
36         getSignup().click();
37
38         WebDriverWait wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;
39         WebElement elementUserName = wait.until(ExpectedConditions.elementToBeClickable(By.id("sign-username")));
40         elementUserName.sendKeys(UN);

```



AddtoCart.java

package pages;

import java.time.Duration;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.PageFactory;

import org.openqa.selenium.support.ui.ExpectedConditions;

import org.openqa.selenium.support.ui.WebDriverWait;

public class AddtoCart {

WebDriver driver;

public AddtoCart(WebDriver driver)

{

this.driver = driver;

PageFactory.initElements(driver, **this**);

}

public void productselection()

{

```

        WebDriverWait wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;

        WebElement getProduct =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(@href,
'prod.html?idp_=2')]"))));

        getProduct.click();

        WebElement addToCart =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//*[contains(text(), 'Add to
cart')]"))));

        addToCart.click();
    }

```

```

    public void checkout(String name, String country, String city, String card, String
month, String year)
    {

        WebDriverWait wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;

        WebElement getProduct =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(text(),
'Cart')]"))));

        getProduct.click();

        WebElement placeOrder =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//*[contains(text(), 'Place
Order')]"))));

        placeOrder.click();

        wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;

        WebElement CName =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='name']"))));

        CName.sendKeys(name);

        WebElement CCountry =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='country']"))));

        CCountry.sendKeys(country);
    }

```



```
        WebElement CCity =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='city']"))));
        CCity.sendKeys(city);

        WebElement CCard =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='card']"))));
        CCard.sendKeys(card);

        WebElement CMonth =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='month']"))));
        CMonth.sendKeys(card);

        WebElement CYear =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='year']"))));
        CYear.sendKeys(card);

        WebElement purchase =
wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//*[contains(text(),
'Purchase')]"))));
        purchase.sendKeys(card);
    }
}
```

```
1 package pages;
2
3 import java.time.Duration;
4 import org.openqa.selenium.By;
5 import org.openqa.selenium.WebDriver;
6 import org.openqa.selenium.WebElement;
7 import org.openqa.selenium.support.PageFactory;
8 import org.openqa.selenium.support.ui.ExpectedConditions;
9 import org.openqa.selenium.support.ui.WebDriverWait;
10
11 public class AddtoCart {
12     WebDriver driver;
13
14     public AddtoCart(WebDriver driver) {
15         this.driver = driver;
16         PageFactory.initElements(driver, this);
17     }
18
19     public void productselection()
20     {
21         WebDriverWait wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;
22         WebElement getProduct = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(@href, 'prod.html?idp=2')]")));
23         getProduct.click();
24
25         WebElement addToCart = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(text(), 'Add to cart')]")));
26         addToCart.click();
27     }
28
29     public void checkout(String name, String country, String city, String card, String month, String year)
30     {
31         WebDriverWait wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;
32         WebElement getProduct = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(text(), 'Cart')]")));
33         getProduct.click();
34
35         WebElement placeOrder = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(text(), 'Place Order')]")));
36         placeOrder.click();
37
38         wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;
39         WebElement CName = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='name']")));
40         CName.sendKeys(name);
41
42     }
```

```
25 getProduct.click();
26
27 WebElement addToCart = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(text(), 'Add to cart')]")));
28 addToCart.click();
29 }
30
31 public void checkout(String name, String country, String city, String card, String month, String year)
32 {
33     WebDriverWait wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;
34     WebElement getProduct = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(text(), 'Cart')]")));
35     getProduct.click();
36
37     WebElement placeOrder = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(text(), 'Place Order')]")));
38     placeOrder.click();
39
40     wait = new WebDriverWait(driver, Duration.ofMinutes(1)) ;
41     WebElement CName = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='name']")));
42     CName.sendKeys(name);
43
44     WebElement CCountry = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='country']")));
45     CCountry.sendKeys(country);
46
47     WebElement CCity = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='city']")));
48     CCity.sendKeys(city);
49
50     WebElement CCard = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='card']")));
51     CCard.sendKeys(card);
52
53     WebElement CMonth = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='month']")));
54     CMonth.sendKeys(month);
55
56     WebElement CYear = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//input[@id='year']")));
57     CYear.sendKeys(year);
58
59     WebElement purchase = wait.until(ExpectedConditions.elementToBeClickable(By.xpath("//a[contains(text(), 'Purchase')]")));
60     purchase.sendKeys(card);
61
62 }
63
64 }
```

Screenshots.java

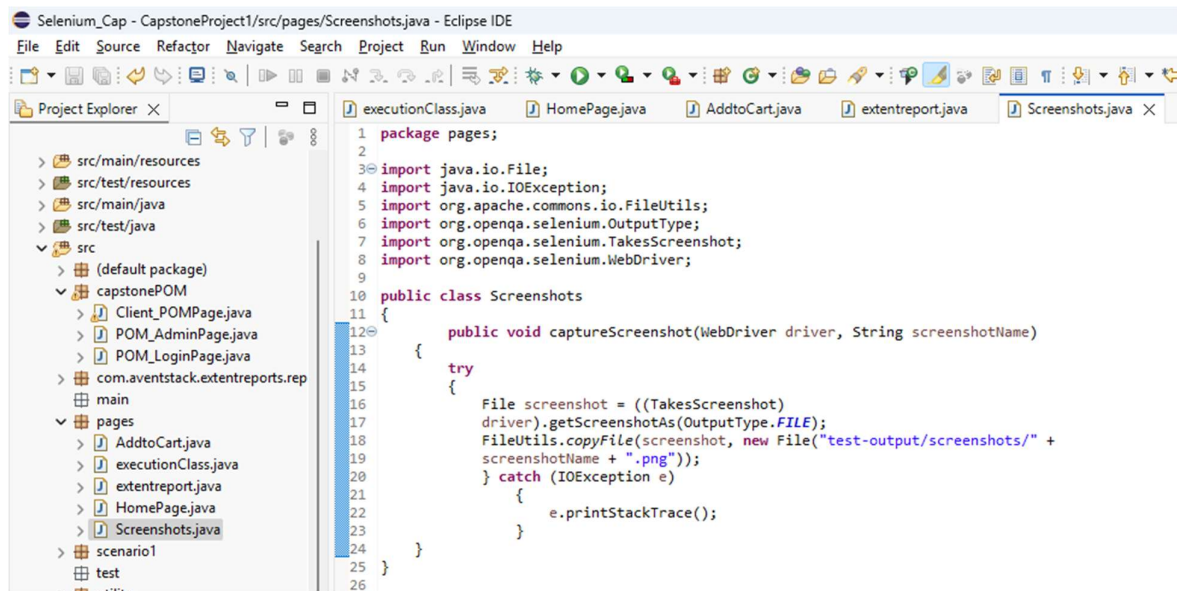
package pages;

import java.io.File;

import java.io.IOException;

```
import org.apache.commons.io.FileUtils;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;

public class Screenshots
{
    public void captureScreenshot(WebDriver driver, String screenshotName)
    {
        try
        {
            File screenshot = ((TakesScreenshot)
            driver).getScreenshotAs(OutputType.FILE);
            FileUtils.copyFile(screenshot, new File("test-output/screenshots/" +
            screenshotName + ".png"));
        } catch (IOException e)
        {
            e.printStackTrace();
        }
    }
}
```



Extentreport.java

```
package pages;
```

```
import com.aventstack.extentreports.ExtentReports;
```

```
import com.aventstack.extentreports.ExtentTest;
```

```
import com.aventstack.extentreports.Status;
```

```
import com.aventstack.extentreports.reporter.ExtentSparkReporter;
```

```
public class extentreport
```

```
{
```

```
    ExtentReports extent;
```

```
    ExtentTest test;
```

```
    public extentreport(String fileName)
```

```
    {
```

```
        extent = new ExtentReports();
```

```
        ExtentSparkReporter spark = new ExtentSparkReporter("test-  
output/extentreports/" + fileName + ".html");
```

```
        extent.attachReporter(spark);
```

```
        test = extent.createTest("DemoBlaze Test"); // Initialize the test
```

```
    }
```

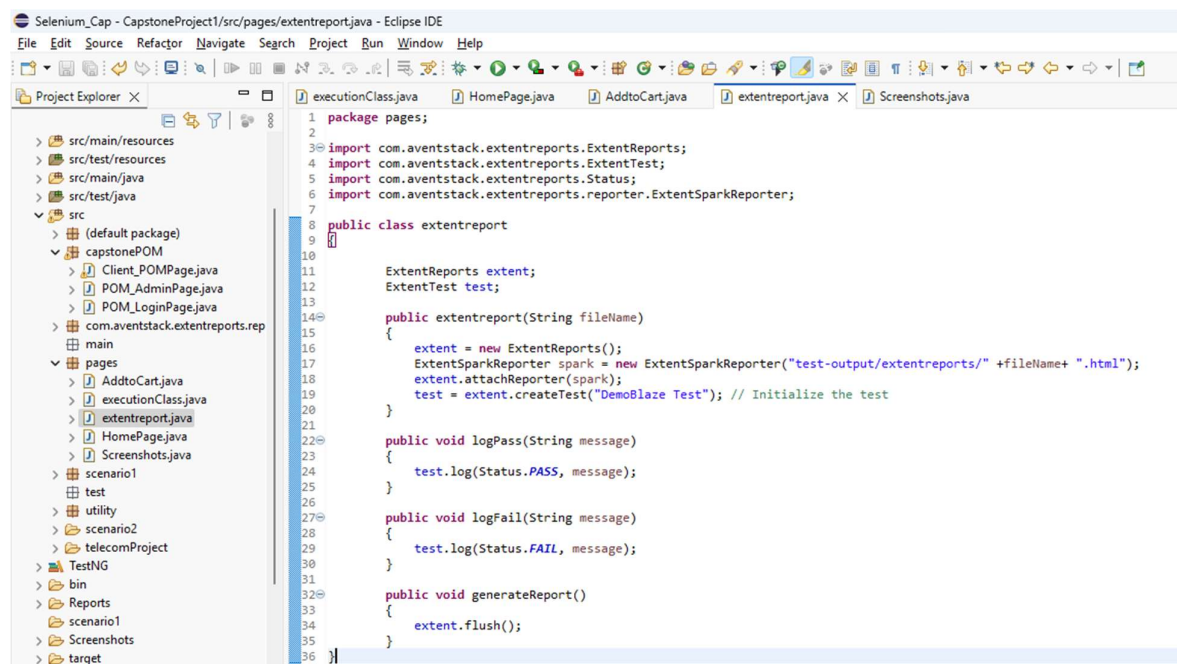
```

    public void logPass(String message)
    {
        test.log(Status.PASS, message);
    }

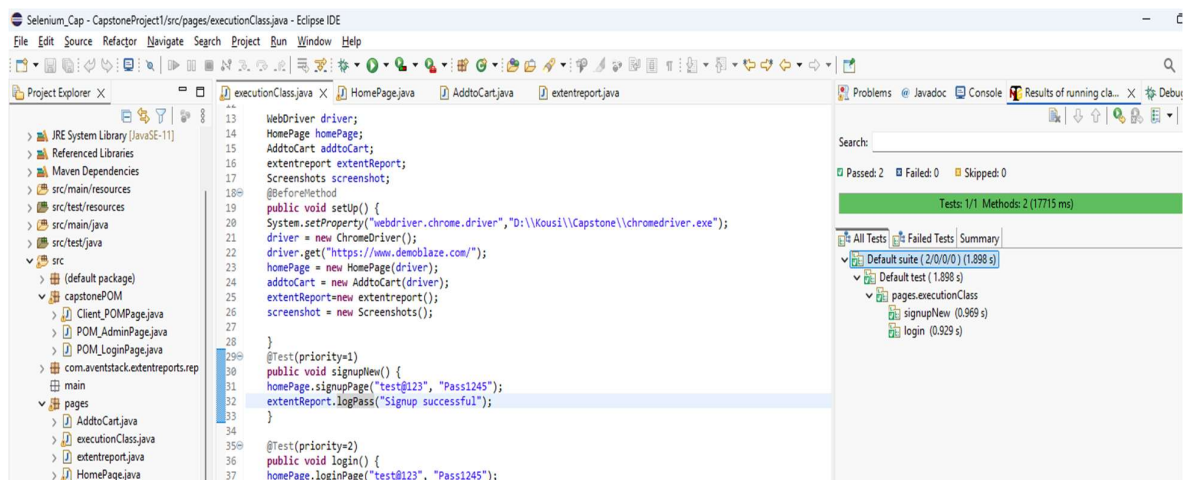
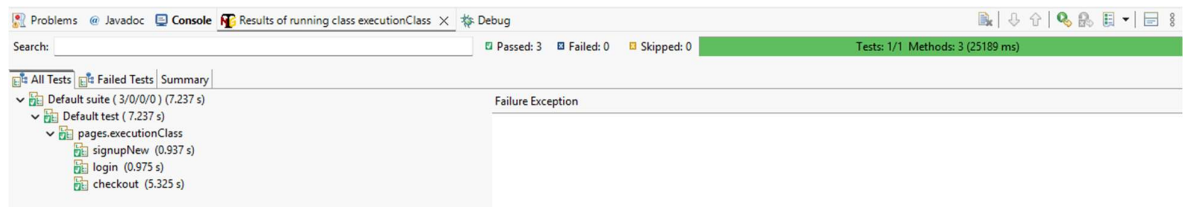
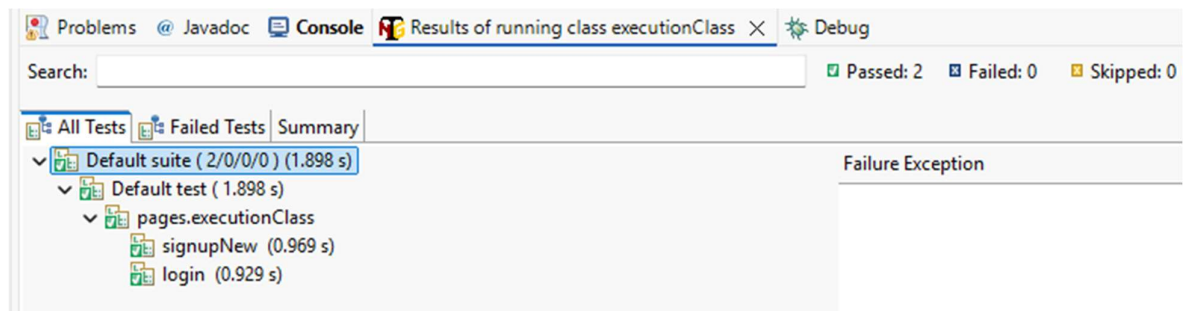
    public void logFail(String message)
    {
        test.log(Status.FAIL, message);
    }

    public void generateReport()
    {
        extent.flush();
    }
}

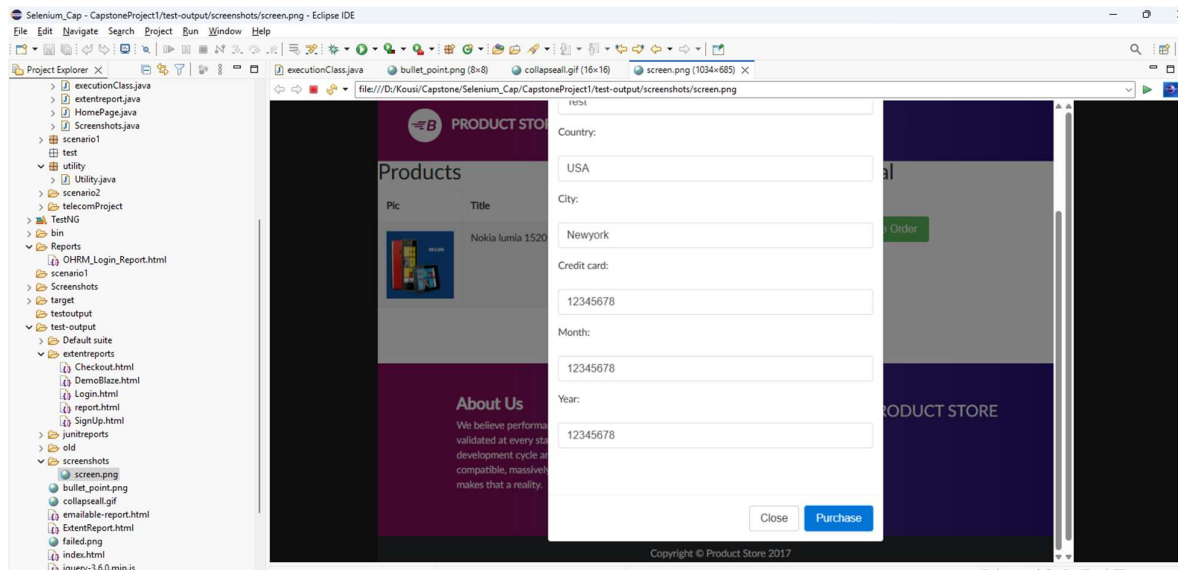
```



CONSOLE OUTPUT :

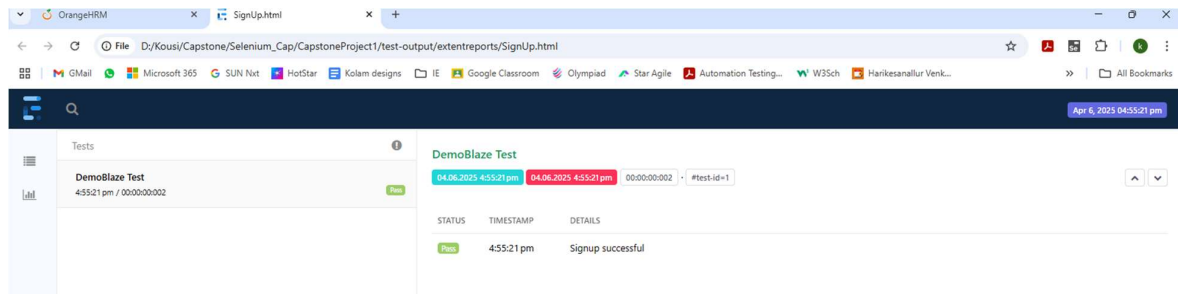


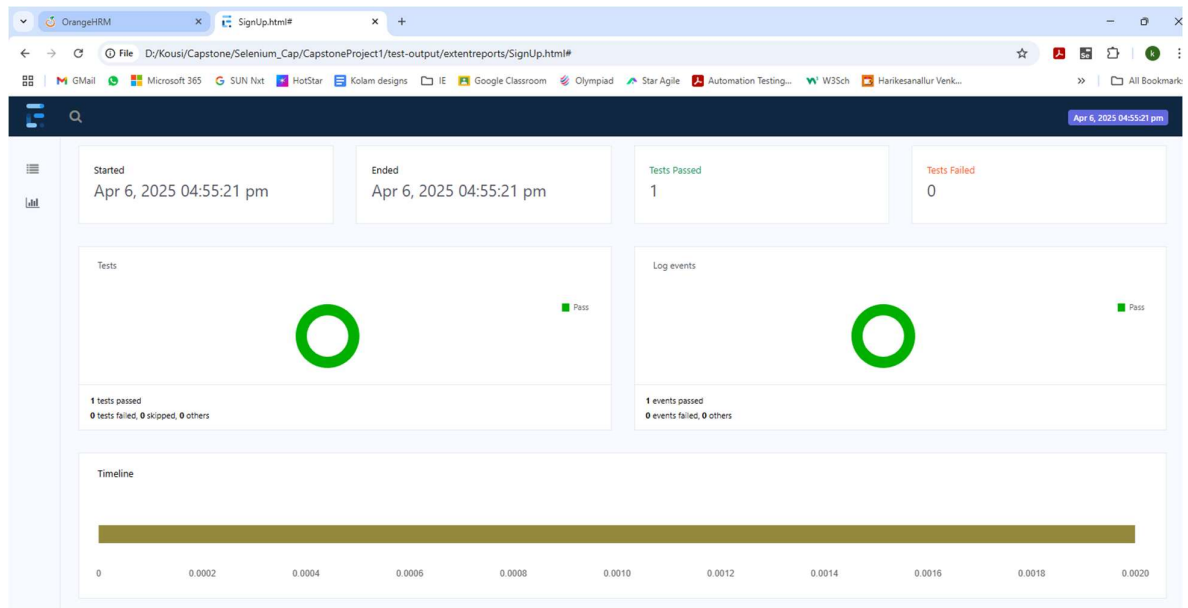
SCREENSHOT :



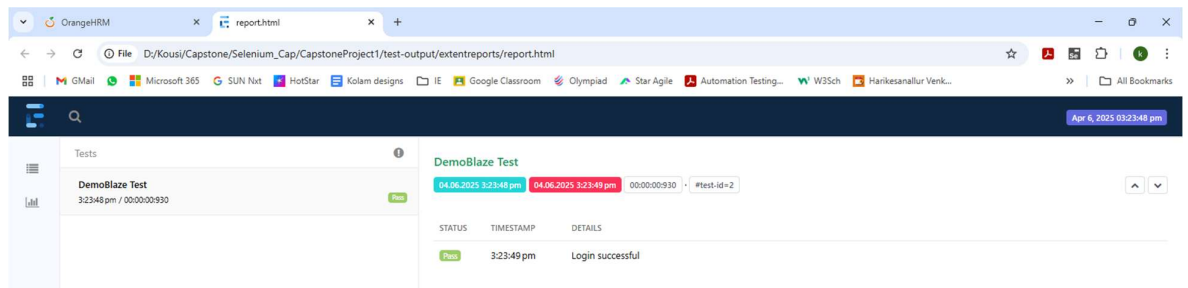
REPORTS :

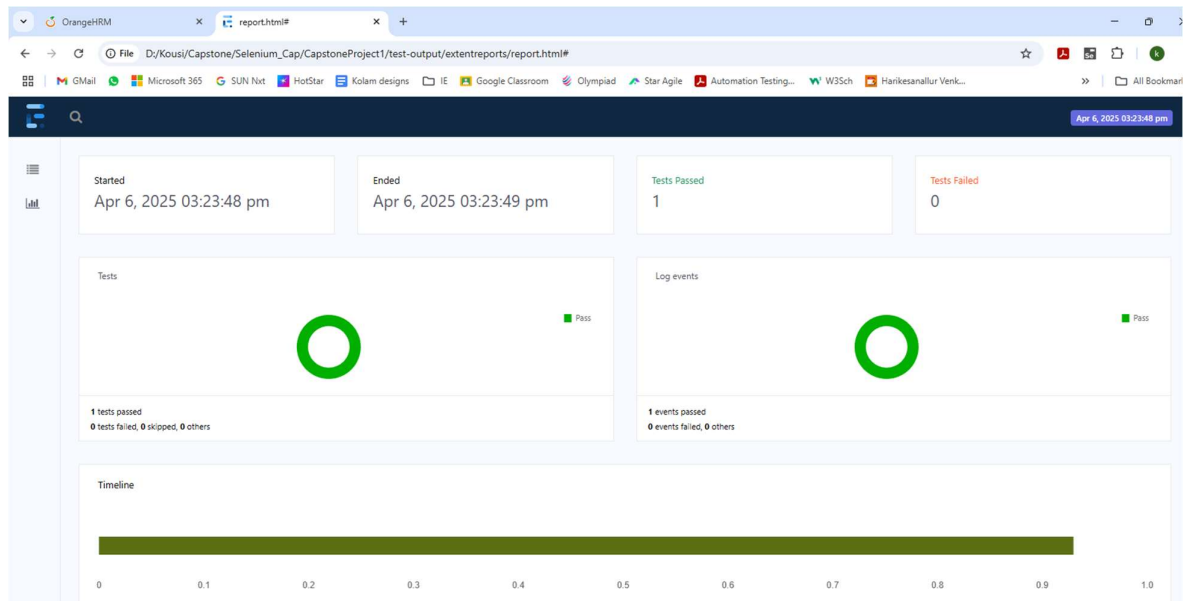
SignUp.html



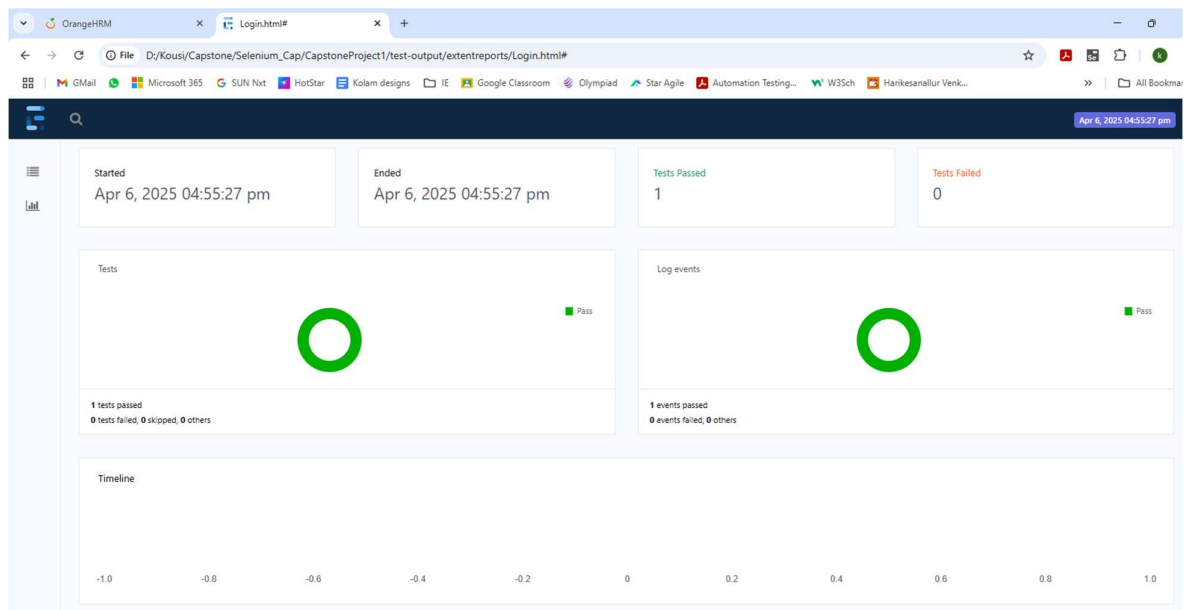
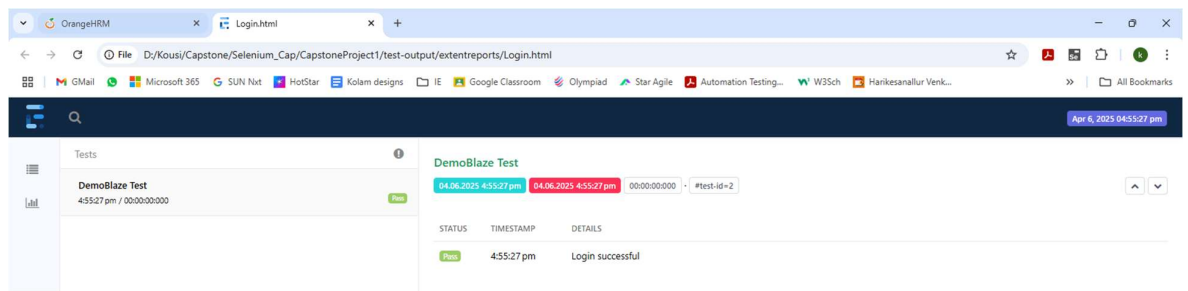


report.html

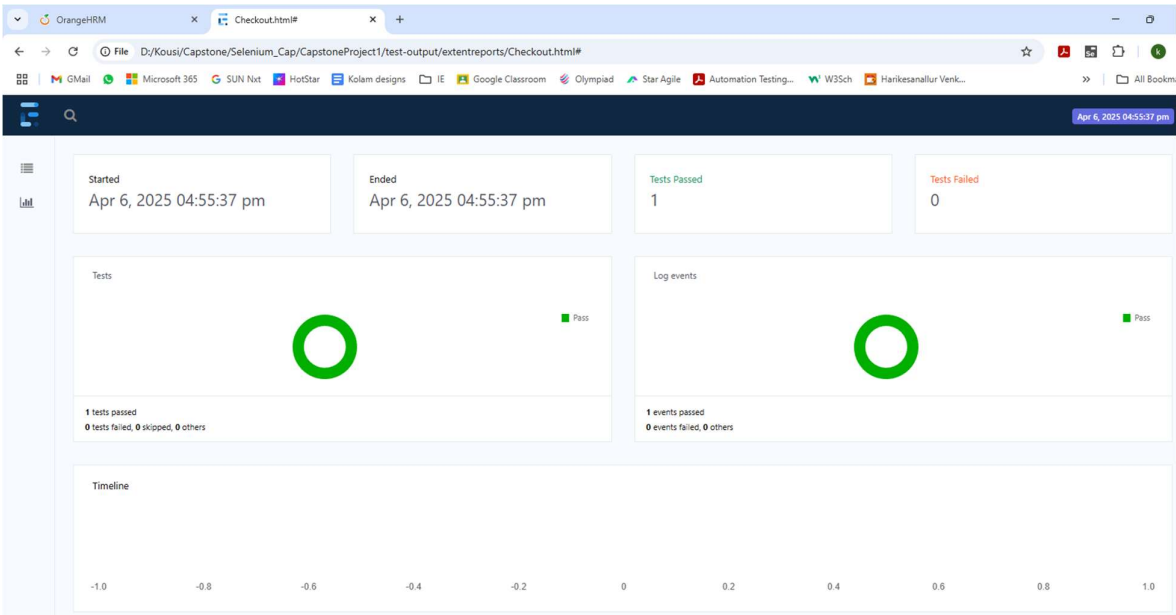
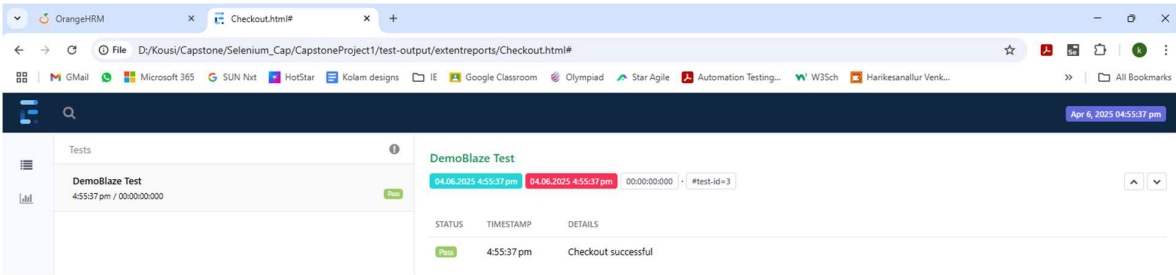




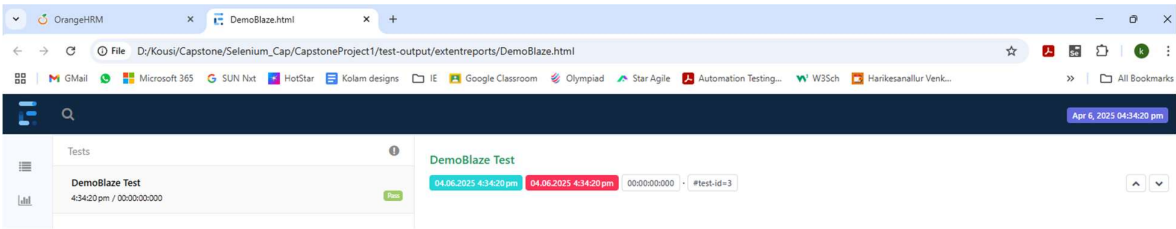
Login.html

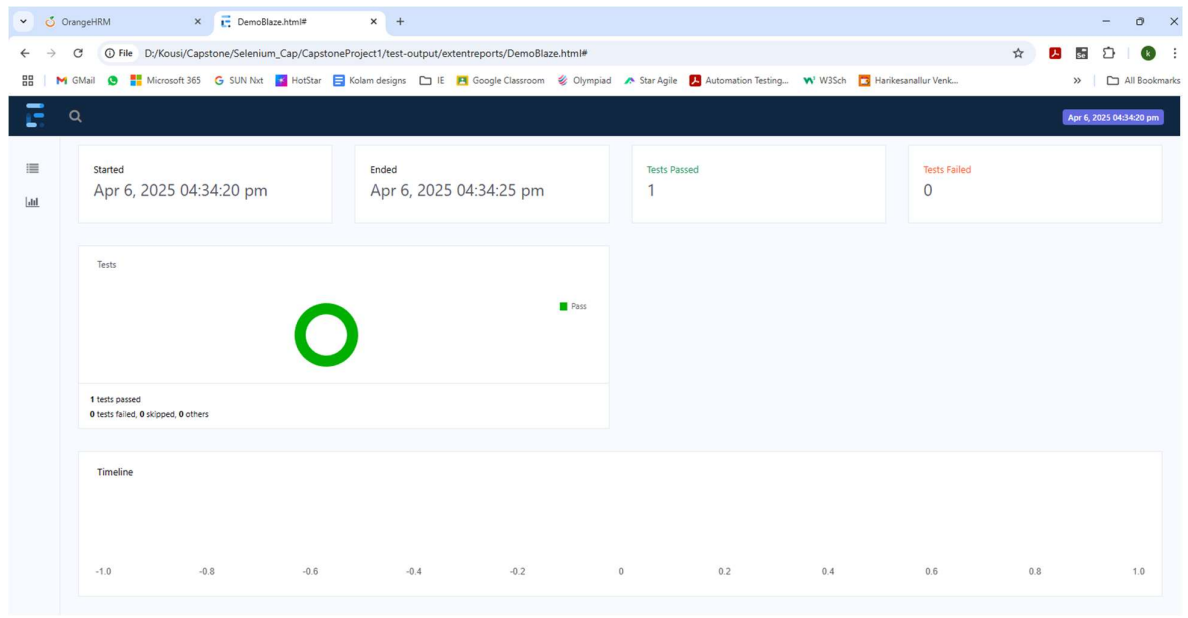


CHECKOUT.html [PRODUCT SELECTION, ADD TO CART, & CHECKOUT]



DEMOBLAZE





Git Repo : <https://github.com/KousalyaPS/CapstoneProject>