

Create a Cucumber Framework for Amazon App.

Step 1: Create a New Maven Project

Navigate to the directory where you want to create your project. Run the following Maven command to create a new project from the maven-archetype-quickstart

Step 2: Add Dependencies to the pom.xml file

Open the pom.xml file in your project and add the necessary dependencies for Cucumber, Selenium, and other libraries:

```
<dependencies>

  <!-- Cucumber Dependencies -->

  <dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-java</artifactId>
    <version>7.0.0</version>
  </dependency>

  <dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-junit</artifactId>
    <version>7.0.0</version>
  </dependency>

  <!-- Selenium Dependencies -->

  <dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>3.141.59</version>
  </dependency>

  <!-- Other Dependencies -->

  <!-- Add any other dependencies you may need -->

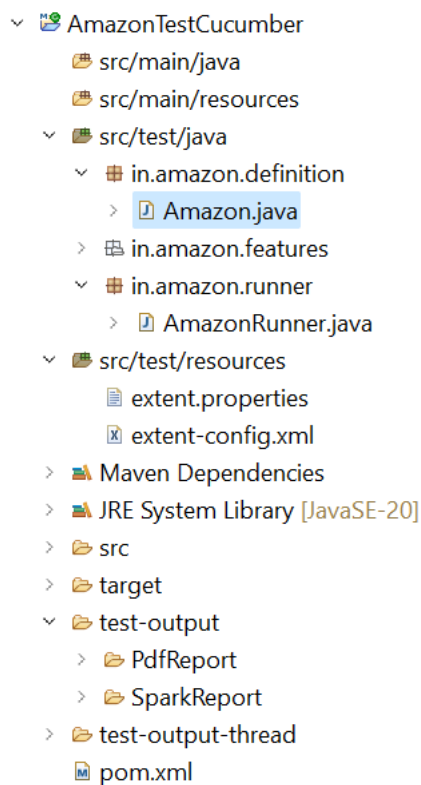
</dependencies>
```

Step 3: Create Cucumber Feature Files and Step Definitions

Follow the previous steps for creating Cucumber feature files and step definitions inside the appropriate directories as mentioned earlier.

Step 4: Implement Selenium WebDriver

implement methods for interacting with web elements.



```
package in.amazon.definition;
```

```
import java.time.Duration;
```

```
import java.util.ArrayList;
```

```
import org.openqa.selenium.By;
```

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

```
import org.openqa.selenium.WebElement;
```

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

```
import org.openqa.selenium.interactions.Actions;
```

```
import io.cucumber.java.en.*;
```

```
public class Amazon {
```

```
    public static WebDriver driver;
```

```
    @Given("I am a registered Amazon user")
```

```
    public void register() {
```

```
        System.out.println("I am a registered Amazon user.");
```

```
    }
```

```
    @Given("I am on the Amazon homepage")
```

```
    public void homepage() {
```

```
        System.out.println("I am on the Amazon homepage.");
```

```
        driver=new ChromeDriver();
```

```
        driver.manage().window().maximize();
```

```
        driver.manage().deleteAllCookies();
```

```
        driver.get("https://amazon.in");
```

```
    }
```

```
    @When("I log in with my Amazon credentials")
```

```
    public void login() throws InterruptedException {
```

```
        System.out.println("I log in with my Amazon credentials.");
```

```
        driver.manage().timeouts().pageLoadTimeout(Duration.ofSeconds(3));
```

```
        WebElement el = driver.findElement(By.xpath("//*[@class='nav-line-1-container']"));
```

```
        Actions a = new Actions (driver); a.moveToElement (el).perform();
```

```
        Thread.sleep(3000);
```

```
        driver.findElement(By. linkText("Sign in")).click();
```

```
        // Inspect the Email and continue button on sign page i Put wrong password
```

```
        Thread.sleep(3000);
```

```
        driver.findElement(By.id("ap_email")).sendKeys("karthick@gmail.com");
```

```

        driver.findElement(By.xpath("//input[@id='continue']")).click();

        // inspect password input box and click on sign button
        driver.findElement(By.id("ap_password")).sendKeys("Karthick21");
        driver.findElement(By.id("signInSubmit")).click();
        WebElement e2 = driver.findElement(By.xpath("//*[@id=\"auth-error-message-
box\"]/div/div/ul/li/span"));
        System.out.println(e2.getText());
    }

    @Then("I should be successfully logged in")
    public void logged() {
        System.out.println("I should be successfully logged in.");
    }

    @When("I search for {string} in the Amazon search bar")
    public void search(String string) throws InterruptedException {
        System.out.println("I search for " + string + " in the Amazon search bar.");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.manage().deleteAllCookies();
        driver.get("https://www.amazon.in");
        driver.findElement(By.linkText("Mobiles")).click();

        WebElement b=driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]"));
        b.sendKeys("iphone 13");
        b.submit();
        Thread.sleep(1500);
        driver.findElement(By.xpath("(//div[@class='a-
section'])[2]/descendant::span[11]")).click();
        ArrayList<String> tabs = new ArrayList<String>(driver.getWindowHandles());
        driver.switchTo().window(tabs.get(1));
        Thread.sleep(1500);
    }

```

```
        driver.findElement(By.id("wishlistButtonStack")).click();
        driver.quit();
    }
}
```

```
@When("I add the product to my Amazon shopping cart")
public void addcart() {
    System.out.println("I add the product to my Amazon shopping cart.");
}
}
```

```
@When("I proceed to checkout")
public void checkout() {
    System.out.println("I proceed to checkout.");
}
}
```

```
@When("I provide shipping and payment information with the following details:")
public void paymentinformation(String docString) {
    System.out.println("I provide shipping and payment information with the following details:");
    System.out.println(docString);
}
}
```

```
@When("I confirm my order")
public void confirmorder() {
    System.out.println("I confirm my order.");
}
}
```

```
@When("I log out of my Amazon account")
public void logout() {
    System.out.println("I log out of my Amazon account.");
}
}
```

```
@Then("I should be logged out successfully")
public void loggedout() {
}
```

```

        System.out.println("I should be logged out successfully.");
    }

    @When("I attempt to log in with invalid Amazon credentials")
    public void logininvalidcredentials() {
        System.out.println("I attempt to log in with invalid Amazon credentials.");
    }

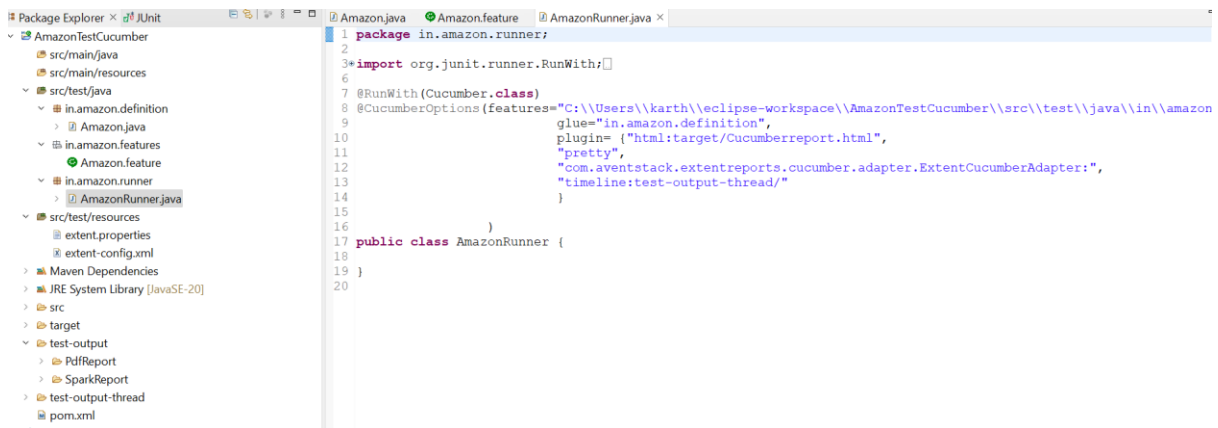
    @Then("I should see an error message")
    public void errormessage() {
        System.out.println("I should see an error message.");
    }
}

```

```

. @Amazon
!e Feature: Amazon Shopping
}   As a registered Amazon user
!   I want to log in, search for and purchase a product, and receive a confirmation
}   So that I can complete my shopping on Amazon
}
!e Background:
}   Given I am a registered Amazon user
}   And I am on the Amazon homepage
}
. @Login
!e Scenario: User Login
}   When I log in with my Amazon credentials
!   Then I should be successfully logged in
}
}
. @Search
!e Scenario Outline: Search for a Product and Purchase
}   When I search for "<product_name>" in the Amazon search bar
}   And I add the product to my Amazon shopping cart
}   And I proceed to checkout
.   And I confirm my order
}
}
. @Logout
!e Scenario: User Logout
}   When I log out of my Amazon account
}   Then I should be logged out successfully
}
}
. @InvalidLogin
!e Scenario: Invalid User Login
}   When I attempt to log in with invalid Amazon credentials
.   Then I should see an error message
}
}
}

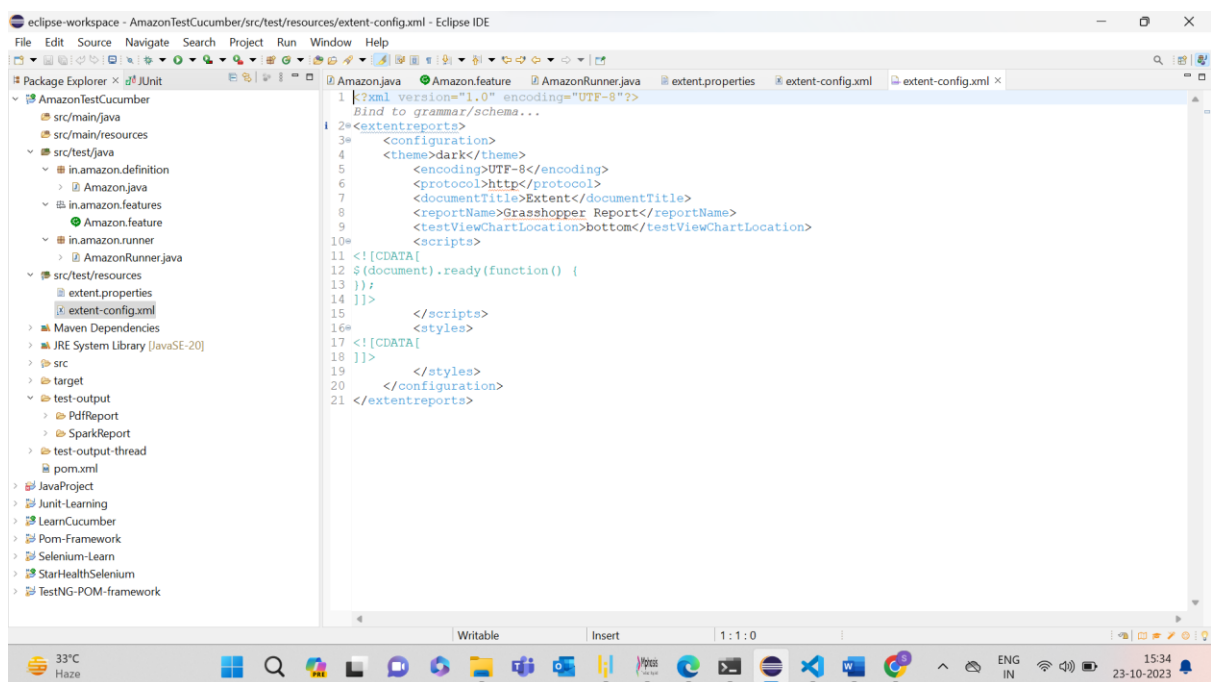
```

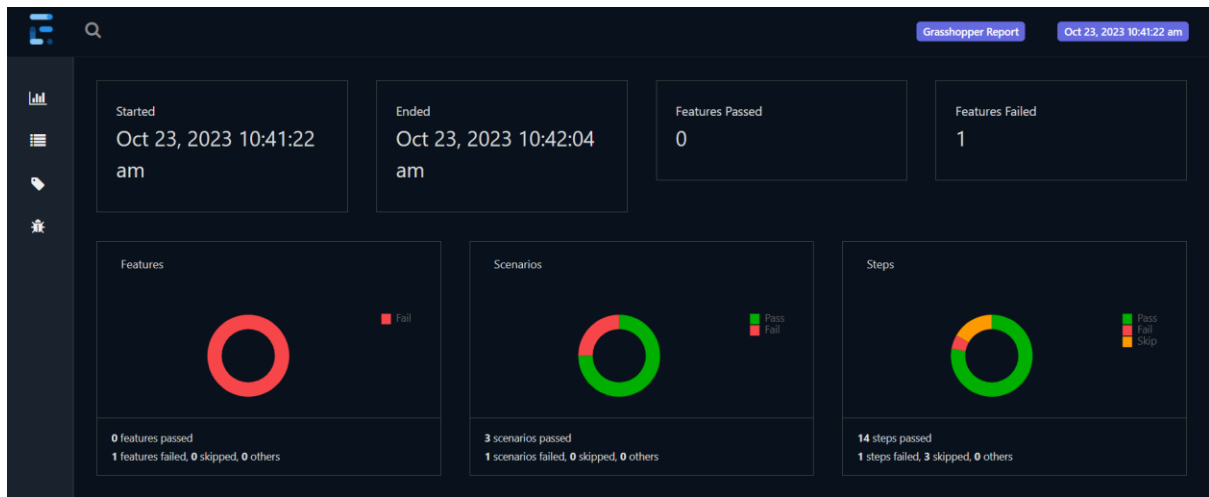


```

1 extent.reporter.spark.start=true
2 extent.reporter.spark.out=test-output/SparkReport/Spark.html
3 extent.reporter.spark.config=src/test/resources/extent-config.xml
4 extent.reporter.spark.out=test-output/SparkReport/
5 screenshot.dir=test-output/
6 screenshot.rel.path=../
7 extent.reporter.pdf.start=true
8 extent.reporter.pdf.out=test-output/PdfReport/ExtentPdf.pdf
9 extent.reporter.spark.vieworder=dashboard, test, category, exception, author, device, log
10 systeminfo.os=Windows
11 systeminfo.user=Karthick
12 systeminfo.build=1.1
13 systeminfo.AppName=AutomationPractice

```





Grasshopper Report Oct 23, 2023 10:41:22 am

Exception 1

org.openqa.selenium.NoSuchElementException 1

1 tests

org.openqa.selenium.NoSuchElementException

1 failed

STATUS	TIMESTAMP	TESTNAME
Fail	10:41:51 am	When I search for "" in the Amazon search bar Amazon Shopping.Search for a Product and Purchase.When I search for "" in the Amazon search bar

Grasshopper Report Oct 23, 2023 10:41:22 am

Category 5

@Amazon 3 passed 1 failed

4 tests

@Logout 1

1 tests

@Search 1

1 tests

@Login 1

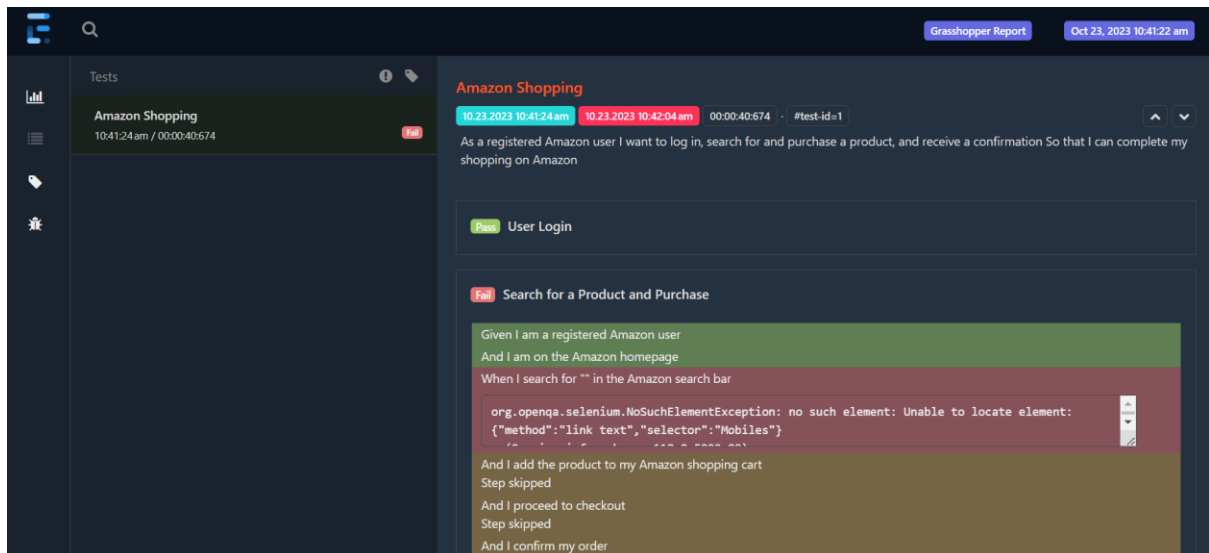
1 tests

@InvalidLogin 1

1 tests

@Amazon

STATUS	TIMESTAMP	TESTNAME
Pass	10:41:24 am	User Login Amazon Shopping.User Login
Fail	10:41:46 am	Search for a Product and Purchase Amazon Shopping.Search for a Product and Purchase
Pass	10:41:55 am	User Logout Amazon Shopping.User Logout
Pass	10:41:59 am	Invalid User Login Amazon Shopping.Invalid User Login



GitHub repository : <https://github.com/Karthick-Office/Project01.git>

Create a Cucumber Framework for Amazon App Project is present under the “BDD Cucumber & Gherkin Practice Project” folder in the My GitHub repository