CreateaCucumberFrameworkforAmazonApp.

Description

AsaFullStackDeveloper,youhavetobuildanautomationscriptandintegrateit with Cucumber to implement BDD approach in the project.

Backgroundoftheproblem statement:

As the project is in the final stage, management has asked you to automate thebasicfunctionalitiesofAmazonfortheinternalemployees.Also,youshallintegrateit with Cucumber for easy development. This will help the development and DevOps team to work efficiently with the application.

Youmust use the following:

- Eclipse
- SeleniumWebDriver
- Cucumber

ScreenShot-

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File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- AmazonApp
  - src/main/java
  - src/main/resources
  - src/test/java
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      - TestRunner.java
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  - pom.xml

Tabs: Lession-Coco... Login.feature TestLoginFea... reportRunne... prectice/pom... AmazonApp/po... AmezonFeatu... TestRunner.java AmezonTest.java

```java
1  package Runner;
2
3  import io.cucumber.junit.Cucumber;
4  import io.cucumber.junit.CucumberOptions;
5  import org.junit.runner.RunWith;
6
7  @RunWith(Cucumber.class)
8  @CucumberOptions(
9          features = "C:\\Users\\91630\\newWorkSpace\\AmazonApp\\src\\test\\java\\Features\\AmezonFeatureFiles.feature",
10         glue = "steps"
11  )
12
13  public class TestRunner {
14
15  }
16
```

Servers Terminal Data Source Explorer Properties Console × JUnit

<terminated> TestRunner (2) [JUnit] C:\Program Files\Java\jdk-17\bin\javaw.exe (30-Nov-2023, 7:27:01 pm – 7:27:27 pm) [pid: 4884]

```
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
```

pom.xml - AmazonApp

Screenshot 1 — AmezonFeatureFiles.feature

```gherkin
1  Feature: Amazon App Automation
2
3  Scenario: Successful Login
4      Given I navigate to the Amazon login page
5      When I enter valid login credentials
6      Then I should be logged in successfully
7
8  Scenario: Successful Registration
9      Given I navigate to the Amazon registration page
10     When I enter valid registration details
11     Then my account should be created successfully
12
13 Scenario: Search for a Product
14     Given I am logged in to the Amazon app
15     When I search for a product with keyword "laptop"
16
```

Console output:
```
<terminated> TestRunner (2) [JUnit] C:\Program Files\Java\jdk-17\bin\javaw.exe (30-Nov-2023, 7:27:01 pm – 7:27:27 pm) [pid: 4884]
Environment variable:                    CUCUMBER_PUBLISH_ENABLED=true
JUnit:                                   @CucumberOptions(publish = true)

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

Screenshot 2 — AmezonTest.java

```java
7   import org.openqa.selenium.chrome.ChromeDriver;
8
9   import io.cucumber.java.en.Given;
10  import io.cucumber.java.en.Then;
11  import io.cucumber.java.en.When;
12
13  public class AmezonTest {
14      private WebDriver driver;
15
16      @Given("I navigate to the Amazon login page")
17      public void i_navigate_to_the_amazon_login_page() {
18
19          driver = new ChromeDriver();
20          driver.get("https://www.amazon.com");
21      }
22
23      @When("I enter valid login credentials")
24      public void i_enter_valid_login_credentials() {
25          driver.findElement(By.id("ap_email")).sendKeys("6306006966");
26          driver.findElement(By.xpath("//input[@id='continue']")).click();
27
28          driver.findElement(By.id("ap_password")).sendKeys("Samrat@26");
29          driver.findElement(By.xpath("//input[@id='signInSubmit']")).click();
30
31      }
32
33      @Then("I should be logged in successfully")
```

Console output:
```
<terminated> TestRunner (2) [JUnit] C:\Program Files\Java\jdk-17\bin\javaw.exe (30-Nov-2023, 7:27:01 pm – 7:27:27 pm) [pid: 4884]
Environment variable:                    CUCUMBER_PUBLISH_ENABLED=true
JUnit:                                   @CucumberOptions(publish = true)

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```

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Project Explorer ×

Lession-Coco... Login.feature TestLoginFea... reportRunne... prectice/pom... AmazonApp/po... AmezonFeatu... TestRunner.java AmezonTest.java ×

```
56      public void my_account_should_be_created_successfully() {
57          boolean isConfirmationMessageDisplayed = driver.findElement(By.id("confirmationMessage")).isDisplayed();
58
59          assertTrue("Confirmation message is not displayed after successful registration",
60                  isConfirmationMessageDisplayed);
61      }
62
63⊖      @Given("I am logged in to the Amazon app")
64      public void i_am_logged_in_to_the_amazon_app() {
65          driver = new ChromeDriver();
66          driver.get("https://www.amazon.com");
67
68          driver.findElement(By.id("ap_email")).sendKeys("6306006966");
69          driver.findElement(By.xpath("//input[@id='continue']")).click();
70
71          driver.findElement(By.id("ap_password")).sendKeys("Samrat@26");
72          driver.findElement(By.xpath("//input[@id='signInSubmit']")).click();
73      }
74
75⊖      @When("I search for a product with keyword {string}")
76      public void i_search_for_a_product_with_keyword(String string) {
77          driver.findElement(By.xpath("//input[@id='twotabsearchtextbox']")).sendKeys("laptop");
78          driver.findElement(By.xpath("//input[@id='nav-search-submit-button']")).click();
79      }
80
81  }
82
```

Servers Terminal Data Source Explorer Properties Console × JUnit

<terminated> TestRunner (2) [JUnit] C:\Program Files\Java\jdk-17\bin\javaw.exe (30-Nov-2023, 7:27:01 pm – 7:27:27 pm) [pid: 4884]

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