Selenium Java Training - Session 29 - Cucumber and BDD (Part 1)

Cucumber and BDD (Part 1)

- 1. What is Cucumber?
 - 1. Cucumber is a framework which supports Behavior Driven Development (BDD).
- 2. What is a BDD?
 - 1. BDD stands for Behavior Driven Development
 - 2. Difference between Traditional Development and Behavior Driven Development
 - In traditional development projects, there will be a <u>communication gap between</u>
 Customers, Developers & Testers
 - Developers misunderstand the Business requirements provided by Customers and build wrong products - <u>View here</u>
 - BDD can be used to overcome this problem
 - In BDD, development is driven by the behavior of the required Software.
 - Development focuses on what to be developed instead of how to develop
 - Behavior of the required Software will be communicated in a plain English language using which the Business, Developers and Tester will be on the same page
 - Example (Amazon.com) <u>View here</u> to find out how the behavior of the software can be communicated in a plain English language.

3. What is Cucumber?

- 1. Cucumber is a framework which supports the implementation of BDD in Selenium Automation by doing the below:
 - Allows us to create Feature Files in plain English language.
 - Understands the Gherkin language which is used for writing the scenarios inside Feature Files in plain English language.
 - Connects the steps inside the Feature Files with the automation code written in Selenium Java language and executes.

4. Install Cucumber Eclipse Plug-in

- Launch Eclipse IDE and select 'Help' Menu > 'Install New Software' option
- Click on 'Add' button and provide Name as 'Cucumber'
- Search for 'Cucumber Eclipse IDE' and find the github page for Cucumber and find the eclipse update site for Cucumber
- You will see the instructions for installing
- Select to install the 'Cucumber Eclipse Plugin'
- Alternative Plugin Natural in Eclipse IDE Marketplace
- 5. Create Maven Project and Configure with Cucumber & Selenium
 - Create a new Maven Project by Right clicking on the Package Explorer and selecting 'New' >
 'Other'
 - Filter Maven and select 'Maven Project' option
 - a Salant 'Creata a simple project' antion

- Select Greate a Simple project option
- Provide the artifact ID as Project Name and Group ID as Package name (Say CBProj and Save Copy to Evernote
- link https://mvnrepository.com/artifact/info.cukes which got appeared in our Search Results
- Copy the dependency tags for 1.2.5 versions of both Cucumber JVM: JUnit and Cucumber JVM: Java in between the dependencies tags of pom.xml file and save the Project
- Google 'JUnit Maven Dependency' and click on the link https://mvnrepository.com/artifact/junit/junit which got appeared in our Search Results
- Copy the dependency tag for 4.11 version of JUnit in between the dependencies tags of pom.xml file and save the Project
- Google 'Selenium Maven Dependency' and click on the link https://mvnrepository.com/artifact/org.seleniumhq.selenium which got appeared in our Search Results
- Copy the dependency tags for 2.53.1 of Selenium Java in between the dependencies tags of pom.xml file and save the Project
- Make the project ready for execution in different browsers by downloading and pasting the required drivers under 'drivers' folder of the project

6. Creating Feature File

- Create a package say 'cbPack'
- Right click on the 'bcPack' and select 'New' > 'File'
- Provide the file name as 'search.feature'
- Clear all the stuff which got auto-generated in the feature file
- Create a Feature File with various keywords like Feature, Scenario, Given, When, And, Then and But keywords - View File Details Here
- Convert the Project to Cucumber Project
 - Right Click on Project > Configure > Convert to Cucumber Project

7. Create Step definitions class

- Right click on the 'bcPack' and select 'New' > 'Class'
- Provide step-definitions for all the steps that are provided in feature file View Code here
- Google chrome plugin to auto-generate the step definitions for the given feature file
 - Tidy Gherkin plugin
- 8. Run the individual feature using Run As > Cucumber Feature

By, Arun Motoori

Save Copy to Evernote

Save Copy to Evernote

Terms of Service

Privacy Policy

Report Spam