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Automation Step By Step
                                       By Raghar Pal (yould).
 Sample feature file
 @ SmokeTest (tags)

Reature: Verify Login Functionationality

@ Reature: User Innin 11

Scenario: User Innin 11
  Scenario; User login attempt with Valid Credentials
   Given User is on chrome browser
   When Uset is on application URL
          User enters user and password
   AND
   Then User clicks on Login
  Then User is on homepage.
# feature file Can have a screnario with Examples.
  @Reg_Sanity
  Scenario outline: User teies to login with multiple Users
   Given User is on chrome browser
   when User is on application URL
   And User enters Luser > and Lpassword)
  Then User Clicks on Login
  Then user is on hompage
  Examples:
                                     (This test will Run
two times).
    | user | password |
    | Ritesh | 12345 |
    | Raghay | 12345 |
                                        Cucumber.
 TESTN G
                                      scenario
 @Test
                                       dataTable using Examples:
 DataProvider
                                    @Tag in cucumber
 Group
Stille
```

dependencies required

Ocucumber Jara

2) Junit dependency Cymber Junit 10 cucumber

all feature files are kept in src/test/resources folder.

-> Cucumber Eclipse plugin can be installed for better.
recedability of feature files.

1 Feature Files

> Feature: Test Login Feature.

Scenario: Verify user is able to Login to Application

Criven User is on Login Page

When User enters UserName and Passcoord

And User Clicks on Login Button

Then User is Navigated to Homelage.

R) Step Definations: I These are glue code which defined what greach step in a feature file should perform.

Remember you can directly our your feature file using Run as. Cucumber feature

Brunner Class.

This is the place where we define the cucumber Configurations like where ourse feature files and where our stepations are.

It has two annotation

@RunWith (Eucumber Class)

@ Cucumber Options (features = "src/test/resources/features",
glue = {"step definations"})

more cucumberophisms
monochrome = tene, protety > 1/2
plugin = { pretty ", "html: target / Htmlkepoots "}

Various different plugin options available are

plugin = { "preHy", "html: target/reports /report.html "} plugin = { "pretly", "json: target / JsonReports / jsonreport.json"} plugin = S'pretty', " x67/1/4 junit: target/Junit Reports/ Tepon xm1" ** at a time only one plugin can be used or give it by, Next Cucumber Option is tags

tags = "@smoketest"

Parameterization in Cucumbes Adding variables to your feature file scenarios and looping through them using which we run same Scenario multiple times. (TDD testing). Data Driven testing

To achieve this scenario outline is used instead of Scenamo.

feature: Test login feature Scenario Outline; Use is able to login with valid cred Griven & browser is open

And * User is on Login Page when & user enters (uscrname) and (password) And user clicks login

Then user is navigated to homepage

Examplesi Tusername | password | | Raghar | 12345 | | Ritesh | 12345 |

In this cage entire scenarion executes twice for two rows -> same like data Provider in Test NG Bus

```
Now in relevant step Defination we need to cupture
these parametrus
  e.g. @ When ("user enters (.+) and (.+)")
         public void enterusername-pais (String username, String password) {
```

driver. find Element (By. id (hame"). send keys (username); driver. find Element (By.id ("pasoword"). send Keys (password);

Point to be noted here if we donot use Scenario Outline which means we want to run the scenario with only one data instance, we need to use "double quotes for data we want to pass from feature file

e.g When user enters "123_Ritesh" and "@pass"

Page Object Model in Cucumber

Design Pattern to create object Repository.

Pagefactory method is a pattern to implement page Object Model.

@FindBy (id = "Idname") WebElement name_tx 2;

@ Find By (name = "I name_1") WebElement nametb;

to find mose than one Element

@FindBy (partial LinkText = "ritesh") LIST KWebElementy links;

```
in Pagefactory patter we need to do call inititements ()
in class constructor.

public class Logintage of
```

```
LoginPage() {

PageFactory.initElements (driver, this);

Class instance

(WebDriver instance)
```

Also we have one more feature @ Cachelookup
e.g. @findby (id = 'my_id'')
@ Cachelookup
WebElement Pd_Element;

In this case we are informing Page Factory to Cache this Element. So that in future if same Element is needed it won't go to DOM to find Element

- -> Apply this only if we know element is static
 i.e its address won't change on Dom due to any
 click actions.
- -, Avoid using @ Cachelookup of Ajax Websites-

Tags in (ucumber

annotations applied to scenarios to group them together for execution purpose.

eg same way we use groups in TestNGT.

@ Smoke Test @ tegression Scenario: Usez Longin with valid credentials

A feature or scenario can have tag (one or more as well). We need to then supply which tag to run in cucumbeclumer des e.g. tags = {@smoke or @regression} = either condition tags = {@smoke and @regression} = AND condition.

Plege Note, you cannot Run More than 1 tags without mentioning and or condition (Now deposiciated)

tags = {@smoke*, @segression} -> XNot allowed

Using tags we can also Ignore or skip test scenarios we need to arrange/select tags in Runnaclass accordingly. We can put tags above any of below shooking Keysooods

Feature Scenario Screnario Outline Examples.

@tags cannot be applied above Background or sleps keywords like Given, when, then, AND. But

tags and inherited by its child for eg.

is @Smoke tag is applied above feature, it
is automatically inherited by scenario, scenarious outine and
Examples.

tag applied on Scenario outline is automatically inheritted by Examples.

Multiple testRunner classes can be created so that we donnot need to change tags again and again. -> Same concept like we do in testing, xml file

(Nothing but @ Before and @ After etr.) Culumber Hooks To perform common steps which are exequired eeach scenario run begore and Affec.

> Scenario Hook -> Runs before and after each scenario Step Hook -> Runs before and after each HOOSty Conditional hook -> associate hooks with tags and do conditional execution

@Before = Runs before each scenario (@Before Test) in test Non Runs affer each scenario (@Affertest) in testNh

@ BeforeStep = Runs Before each step (

@AfterStep: Runs After each step.

= Runs before all scenarios @ Before Suite in Text

= Runs after all scenarios. @Aftersinte in tess Nh

These are all Proportion + Cucumber Hooks. (10. cucumber jara). In Cucumber A believe they call it hooks since they want to differentiate between @tegs and @hooks.

If you have multiple same hooks use (order=0) and 0 → highest

@Before (Order = 0)

@Before (Order=1) In case of @After (order = 0) } 1 executes first then @Alter (order=1)

(order works in severse

 \forall

Conditional hook

you can have conditional book by mentioning @tags in hook annotation.

@ Before (@ smoketest", ordez=0).

sample where both order and hook is used.

Background in Cucumber feature

Background should be used if we want to show in feature what common steps have to be executed before each scenarion.

Background in feature file are common steps which should be executed before each scengrio in that file

e.g. Feature: Very Longin Functionity

Background: user is logged in

Given, user is on login page

When user enters wername and passional

And clicks on login button

And clicks is navigated to homepage

Scenario: check logout link
When user clicks on Welcome link
Then logout link is displayed

Scenario: Yezify quick lauch toolbar is present when user clicks on dashboard link
Then quick launch toolbar is displayed.

Note: you can have only one Background in a feature file.

How to do command line Execution in Cucumber

-> Required for CI/CD Polegration (Jenkins)

- No dependency on IDE

-> for balch O/ schedules .

myn test ours all the files which has Test in The name all java files.

That is the beauty of maxen.

myn test -D cucumber options = "h" gives help.

Basically the options you given in runner class can be supplied from here diff directly.

Cucymber Selenium.git , This is your github

Repository of all programs

done in pratice