

Cucumber: This document records the steps performed for the Cucumber part of the final assessment

Question

Cucumber

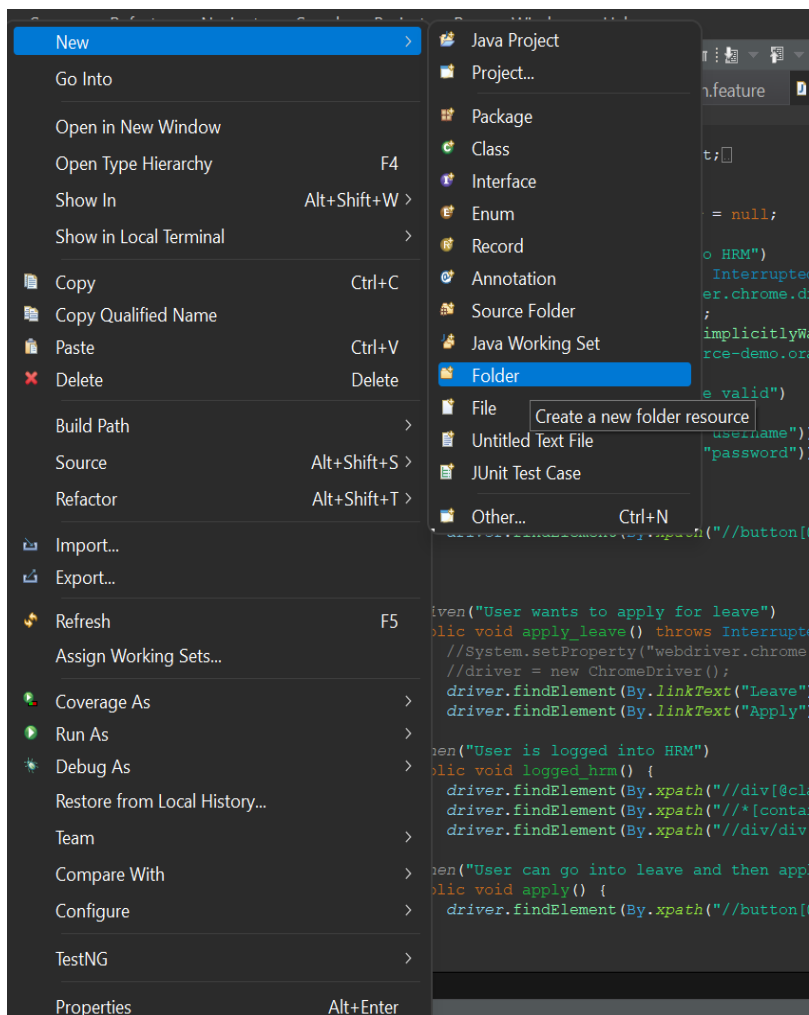
- Write program to login to HRM Login
- Write program to apply leave
- User method over loading for searching as discussed in the class assignment

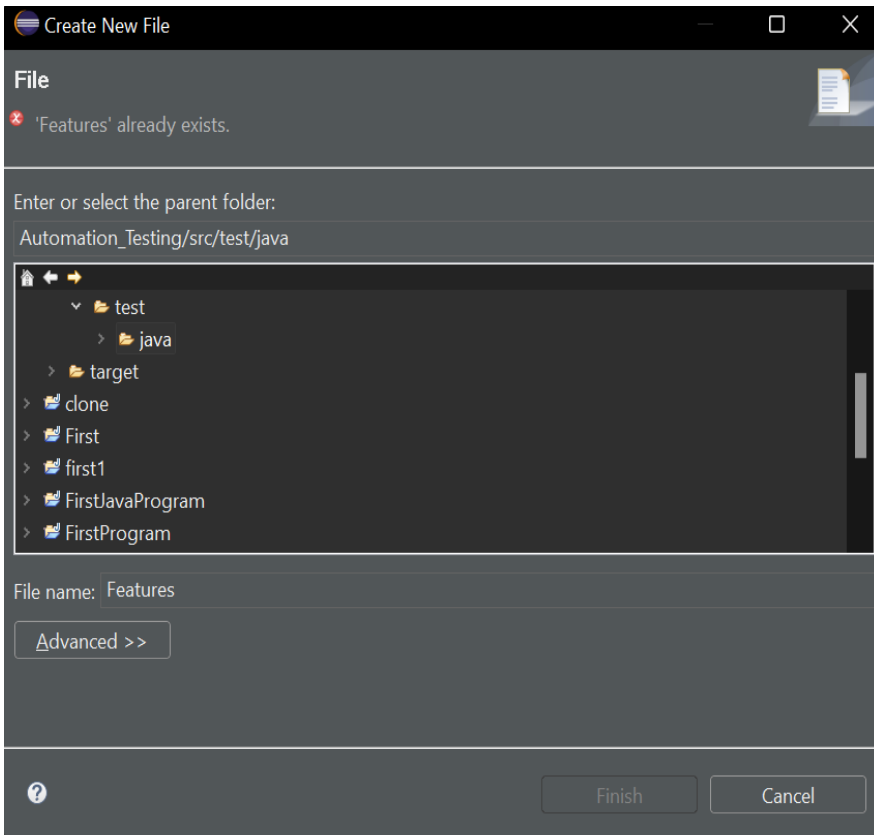
What is cucumber in Selenium?

Cucumber is a free or open-source BDD (Behavior Driven Development) tool. Cucumber framework in Selenium allows test scenarios to be written using natural language constructs that describe the expected behavior of the software for a given scenario, making it ideal for user acceptance testing.

a) Creating the features file

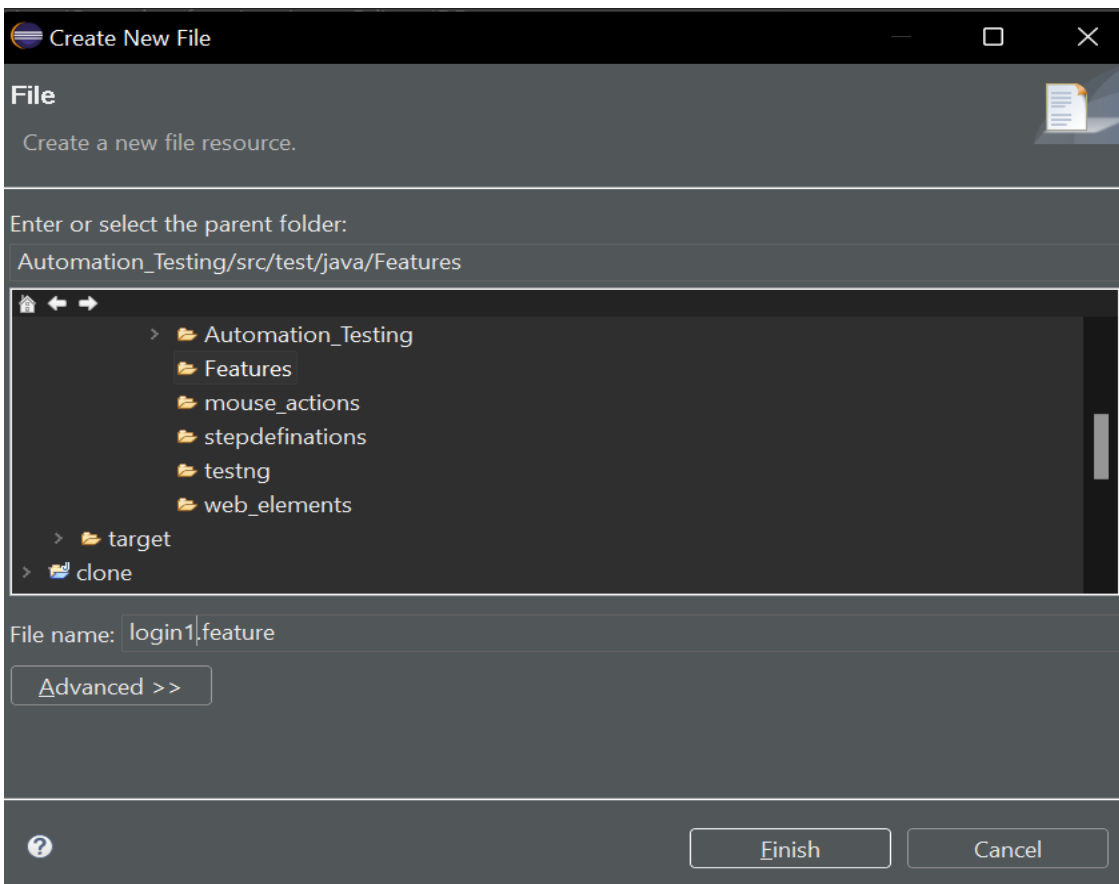
Go to new -> folder -> give the name of folder as features



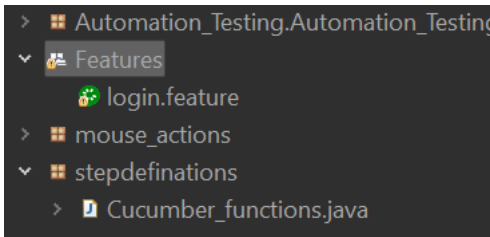


b) Create a new file inside features named as login1.feature

The feature extension shows that the file is a cucumber file



Once the file is created, our **folder structure** will look something like this. Make another package called **stepdefinitions** and inside that make a java class. This class doesn't need the private static void string argument.



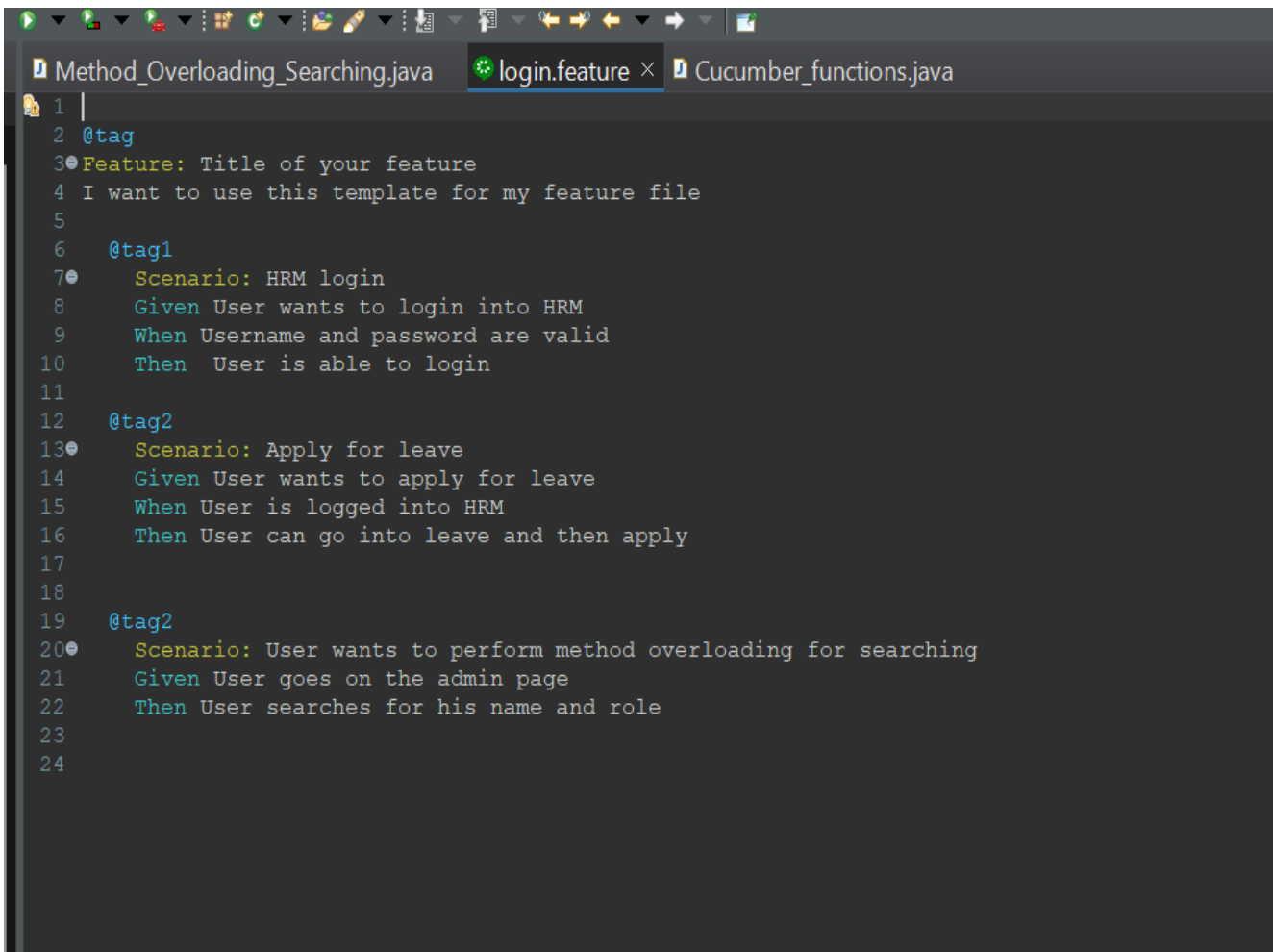
Login.feature file

This is a file that shows the test scenarios in simple English and promotes BDD (Behavior driven development). Here we have three scenarios, namely the three questions of the assessment i.e., the login HRM, apply leave and the method overloading for searching

Given - It describes the pre-requisite for the test to be executed.

When - It defines the trigger point for any test scenario execution.

Then - Then holds the expected result for the test to be executed.



The code contains three given -when -then blocks for the three test scenarios. The code in these blocks is the same as in earlier parts of the final assessment.

The string inside the given annotation must match what was written in the BDD file.

- i) In line 13, we instantiate a driver of the type of web driver as null.

```
Method_Overloading_Searching.java login.feature *Cucumber_functions.java x
1 package stepdefinitions;
2
3 import java.util.concurrent.TimeUnit;
4
11
12 public class Cucumber_functions {
13     private static WebDriver driver = null;
14
15     @Given("User wants to login into HRM")
16     public void user_login() throws InterruptedException {
17         System.setProperty("webdriver.chrome.driver", "C:\\brayan1\\chromedriver.exe");
18         driver = new ChromeDriver();
19         driver.manage().timeouts().implicitlyWait(100, TimeUnit.SECONDS);
20         driver.get("https://opensource-demo.orangehrmlive.com/web/index.php/pim/viewEmployeeList");
21     }
22     @When("Username and password are valid")
23     public void credentials_entered() {
24         driver.findElement(By.name("username")).sendKeys("Admin");
25         driver.findElement(By.name("password")).sendKeys("admin123");
26     }
27     @Then("User is able to login")
28     public void logged_in() {
29         driver.findElement(By.xpath("//button[@type = 'submit']")).click();
30     }
31
32
33     @Given("User wants to apply for leave")
34     public void apply_leave() throws InterruptedException {
35         driver.findElement(By.linkText("Leave")).click(); // Clicking on the leave element on sidebar
36         driver.findElement(By.linkText("Apply")).click(); // clicking on apply button for leave
37     }
38     @When("User is logged into HRM")
39     public void logged_hrm() {
40         driver.findElement(By.xpath("//div[@class='oxd-select-text oxd-select-text--active']/div[2]/i")).click();
41         driver.findElement(By.xpath("//*[contains(text(),'CAN')]")).click(); // selecting an option from dropdown using the contains filter
42         driver.findElement(By.xpath("//div/div[2]/div/div/input")).sendKeys("2022-11-11"); // sending the leave date
43     }
44     @Then("User can go into leave and then apply ")
45     public void apply() {
46         driver.findElement(By.xpath("//button[@type='submit']")).click(); // clicking on submit application
47     }
48
49
50     @Given("User goes on the admin page")
51     public void user_search() throws InterruptedException {
```

Console output

```
@tag @tag1
Scenario: HRM login # src/test/java/Features/login.feature:7
Starting ChromeDriver 105.0.5195.52 (412c95e518836d8a7d97250d62b29c2ae6a26a85-refs/branch-heads/5195@#853) on port 22860
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1665126300.484][WARNING]: This version of ChromeDriver has not been tested with Chrome version 106.
Oct 07, 2022 12:35:00 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Given User wants to login into HRM # stepdefinitions.Cucumber_functions.user_login()
When Username and password are valid # stepdefinitions.Cucumber_functions.credentials_entered()
Then User is able to login # stepdefinitions.Cucumber_functions.logged_in()

@tag @tag2
Scenario: Apply for leave # src/test/java/Features/login.feature:13
Given User wants to apply for leave # stepdefinitions.Cucumber_functions.apply_leave()
When User is logged into HRM # stepdefinitions.Cucumber_functions.logged_hrm()
Then User can go into leave and then apply # null

@tag @tag2
Scenario: User wants to perform method overloading for searching # src/test/java/Features/login.feature:20
Given User goes on the admin page # stepdefinitions.Cucumber_functions.user_search()
Then User searches for his name and role # null


Undefined scenarios:
file:///C:/Users/EI13064/eclipse-workspace/Automation_Testing/src/test/java/Features/login.feature:13# Apply for leave
file:///C:/Users/EI13064/eclipse-workspace/Automation_Testing/src/test/java/Features/login.feature:20# User wants to perform metho

3 Scenarios (2 undefined, 1 passed)
8 Steps (2 undefined, 6 passed)
1m53.818s
```

OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/admin/viewSystemUsers

Chrome is being controlled by automated test software.



Search

Admin

PIM

Leave

Time

Recruitment

My Info

Performance

Dashboard

Directory

Admin / User Management

User Management

Job

Organization

Qualifications

Nationalities

More

System Users

Username

User Role

Employee Name

Status

-- Select --

Type for hints...

-- Select --

Reset

Search

+ Add

123 Records Found