**Feature File**

Features file contain high level description of the Test Scenario in simple language. It is known as Gherkin. Gherkin is a plain English text language

Feature File consist of following components -

* **Feature**: A feature would describe the current test script which has to be executed.
* **Scenario**: Scenario describes the steps and expected outcome for a particular test case.
* **Scenario Outline**: Same scenario can be executed for multiple sets of data using scenario outline. The data is provided by a tabular structure separated by (I I).
* **Given**: It specifies the context of the text to be executed. By using datatables "Given", step can also be parameterized.
* **When**: "When" specifies the test action that has to performed
* **Then**: The expected outcome of the test can be represented by "Then"

**Sample Feature File Example:**

**Scenario Outline:** Free CRM Login Test Scenario

*Given* user is already on Login Page

*When* title of login page is Free CRM

*Then* user enters "*<username>*" and "*<password>*"

*Then* user clicks on login button

*Then* user is on home page

*Then* Close the browser

**Examples:**

| username | password |

| testuser | test@123 |

| tom | test456 |

**Step Definition**

Step definition maps the Test Case Steps in the feature files(introduced by Given/When/Then) to code. It which executes the steps on Application Under Test and checks the outcomes against expected results. For a step definition to be executed, it must match the given component in a feature. Step definition is defined in ruby files under "features/step\_definitions/\*\_steps.rb".

Feature: Product Login

As a user, I would like to be able to use my credentials to successfully

login.

Rules:

- The user must have a valid username

- The user must have a valid password

- The user must have an active subscription

- User is locked out after 3 invalid attempts

- User will get a generic error message following

login attempt with invalid credentials

Scenario: The user successfully logs in with valid credentials

This scenario tests that a user is able to successfully login

provided they enter a valid username, valid password, and

currently have an active subscription on their account.

Given the user is on the login page

When the user signs in with "valid" credentials

Then the user should be logged in

Scenario: The user attempts to log in with invalid credentials

This scenario tests that a user is not able to log in when

they enter invalid credentials

Given the user is on the login page

When the user signs in with "invalid" credentials

Then the user should be logged in

Scenario: The user is locked out after too many failed attempts

This scenario validates that the user is locked out

of their account after failing three consecutive

attempts to log in

Given the user is on the login page

When the user fails to log in 3 times

Then the user should be locked out of their account