To create comprehensive test cases for login scenarios, we need both positive and negative test cases. Here is an extended suite of test cases based on the provided details.

Test Case ID: TC\_Login\_01

Test Objective:

Successful Employee login to OrangeHRM portal

Precondition:

1. A valid ESS-User account to login to be available.

2. Orange HRM 3.0 site is launched on a compatible browser.

Steps:

1. In the login Panel, enter the username (Test Data: "Admin").

2. Enter the Password for the ESS-User account in the password field (Test data: "admin123").

3. Click "Login" button.

Expected Result:

The User is logged in successfully.

Positive Test Cases

Test Case ID: TC\_Login\_02

Test Objective:

Successful login with another valid user account.

Steps:

1. In the login Panel, enter the username (Test Data: "JohnDoe").

2. Enter the Password for the ESS-User account in the password field (Test data: "password123").

3. Click "Login" button.

Expected Result:

The User is logged in successfully.

Test Case ID: TC\_Login\_03

Test Objective:

Successful login with mixed case username.

Steps:

1. In the login Panel, enter the username (Test Data: "admin").

2. Enter the Password for the ESS-User account in the password field (Test data: "admin123").

3. Click "Login" button.

Expected Result: The User is logged in successfully.

Negative Test Cases

Test Case ID: TC\_Login\_04

Test Objective:

Unsuccessful login with incorrect username.

Steps:

1. In the login Panel, enter the username (Test Data: "wrongAdmin").

2. Enter the Password for the ESS-User account in the password field (Test data: "admin123").

3. Click "Login" button.

Expected Result: The User is not logged in, and an error message "Invalid credentials" is displayed.

Test Case ID: TC\_Login\_05

Test Objective:

Unsuccessful login with incorrect password.

Steps:

1. In the login Panel, enter the username (Test Data: "Admin").

2. Enter the Password for the ESS-User account in the password field (Test data: "wrongPassword").

3. Click "Login" button.

Expected Result:

The User is not logged in, and an error message "Invalid credentials" is displayed.

Test Case ID: TC\_Login\_06

Test Objective:

Unsuccessful login with blank username.

Steps:

1. In the login Panel, leave the username field blank.

2. Enter the Password for the ESS-User account in the password field (Test data: "admin123").

3. Click "Login" button.

Expected Result:

The User is not logged in, and an error message "Username cannot be empty" is displayed.

Test Case ID: TC\_Login\_07

Test Objective:

Unsuccessful login with blank password.

Steps:

1. In the login Panel, enter the username (Test Data: "Admin").

2. Leave the Password field blank.

3. Click "Login" button.

Expected Result:

The User is not logged in, and an error message "Password cannot be empty" is displayed.

Test Case ID: TC\_Login\_08

Test Objective:

Unsuccessful login with both username and password blank.

Steps:

1. In the login Panel, leave both the username and password fields blank.

2. Click "Login" button.

Expected Result:

The User is not logged in, and error messages "Username cannot be empty" and "Password cannot be empty" are displayed.

Test Case ID: TC\_Login\_09

Test Objective:

Unsuccessful login with SQL injection attempt.

Steps:

1. In the login Panel, enter the username (Test Data: "' OR '1'='1").

2. Enter the Password for the ESS-User account in the password field (Test data: "' OR '1'='1").

3. Click "Login" button.

Expected Result:

The User is not logged in, and an error message "Invalid credentials" is displayed.

Test Case ID: TC\_Login\_10

Test Objective:

Unsuccessful login with special characters in username.

Steps:

1. In the login Panel, enter the username (Test Data: "!@#$%^&\*()").

2. Enter the Password for the ESS-User account in the password field (Test data: "admin123").

3. Click "Login" button.

Expected Result:

The User is not logged in, and an error message "Invalid credentials" is displayed.

Fetching Error Messages for Invalid Logins from Web Page:

To ensure we have accurate error messages, we would need to interact with the OrangeHRM login page. However, without direct access to the page in this environment, the typical error messages for invalid logins based on industry standards and typical implementations are:

1. Invalid credentials: "Invalid credentials"

2. Empty username: "Username cannot be empty"

3. Empty password: "Password cannot be empty"

These messages should be verified on the actual login page of the OrangeHRM portal.