

Scenario: Automate the below test cases

Environment Details:

Test URL: <https://dsnm875e4wmhw.cloudfront.net/>

User name : sfwebhtml

Password : t63KUfxL5vUyFLG4eqZNUcuRQ

Browser: Chrome

Technology: Selenium with Java

Test Case 1: Login into application <https://dsnm875e4wmhw.cloudfront.net/> with username/password: sfwebhtml / t63KUfxL5vUyFLG4eqZNUcuRQ which is window's pop up and verify the user is able to login successfully. Implement **retry logic**: If login fails due to a pop-up blocker, retry twice before marking the test as failed.

Test Case 2: Submit the form without filling required fields and verify that appropriate error messages should be displayed. Also, Capture **all displayed error messages** and **print them in the console** in the format:

Field: Email -> Error: This field is required

Field: Password -> Error: Must be at least 8 characters

Test Case 3: Verify presence of all input fields using Soft assertions

Test Case 4: Submit the form after filling all the required details by using XPath method only with below test data

- Date of Birth from Calendar: 05/11/1990
- Upload file: Any pdf file
- Are you willing to relocate? (Radio Button): Yes

Test Case 5: Write a Java method that can detect whether a form field is a text box, radio button, or dropdown without using getTagName().

Print the output as:

Field: Name -> Type: Textbox

Field: Gender -> Type: Radio Button

Field: Country -> Type: Dropdown

Test Case 6: After submitting the form, Verify successful entry is created in DB
DB details are:

- url: jdbc:mysql://localhost:3306/test
- Username: root
- Password: root
- Table name: User
- Unique attribute: Email Id

Test Case 7: Verify Email is triggered after submitting the form using assertion on DB considering an email trigger column as email_sent.

- url: jdbc:mysql://localhost:3306/test
- Username: root
- Password: root
- Table name: email
- Column name: email_sent [datatype: boolean]