

# Test Plan for WebUI Automation: User Login (Student/Teacher)

## **Objective:**

To ensure that the login functionality for students and teachers works correctly, validating user credentials and roles.

## **Scope:**

- Testing login with valid and invalid credentials.
- Verifying role-based login (Student/Teacher).
- Ensuring proper error messages are displayed for invalid login attempts.

## **Test Cases:**

### **1. Test Case: Successful Login with Valid Student Credentials**

- **Preconditions:** A student account exists with valid credentials.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Enter a valid student username.
  - iii. Enter the corresponding valid password. Click the "Login" button.
- **Expected Result:** User is successfully logged in and redirected to the student dashboard.

### **2. Test Case: Successful Login with Valid Teacher Credentials**

- **Preconditions:** A teacher account exists with valid credentials.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Enter a valid teacher username.
  - iii. Enter the corresponding valid password.
  - iv. Click the "Login" button.
- **Expected Result:** User is successfully logged in and redirected to the teacher dashboard.

### **3. Test Case: Login with Invalid Username**

- **Preconditions:** An account with the entered username does not exist.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Enter an invalid username.
  - iii. Enter any password.
  - iv. Click the "Login" button.
- **Expected Result:** An error message "Invalid username or password" is displayed.

#### 4. Test Case: Login with Invalid Password

- **Preconditions:** An account with the entered username exists.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Enter a valid username.
  - iii. Enter an invalid password.
  - iv. Click the "Login" button.
- **Expected Result:** An error message "Invalid username or password" is displayed.

#### 5. Test Case: Login with Empty Username

- **Preconditions:** None.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Leave the username field empty.
  - iii. Enter any password.
  - iv. Click the "Login" button.
- **Expected Result:** An error message "Username is required" is displayed.

#### 6. Test Case: Login with Empty Password

- **Preconditions:** None.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Enter any username.
  - iii. Leave the password field empty.
  - iv. Click the "Login" button.
- **Expected Result:** An error message "Password is required" is displayed.

#### 7. Test Case: Login with Empty Username and Password

- **Preconditions:** None.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Leave both username and password fields empty.

- iii. Click the "Login" button.
- **Expected Result:** Error messages "Username is required" and "Password is required" are displayed.

#### **8. Test Case: Login with Correct Credentials but Wrong Role**

- **Preconditions:** A valid user account exists.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Enter a valid username.
  - iii. Enter the corresponding valid password.
  - iv. Click the "Login" button.
- **Expected Result:** An error message "Invalid username or password" is displayed.

#### **9. Test Case: Case Sensitivity in Username and Password**

- **Preconditions:** A valid user account exists with a specific case-sensitive username and password.
- **Steps:**
  - i. Navigate to the login page.
  - ii. Enter the username with incorrect casing.
  - iii. Enter the password with incorrect casing.
  - iv. Click the "Login" button.
- **Expected Result:** An error message "Invalid username or password" is displayed.