Approach to Cypress Test Script

Objective

The test script aims to validate the login functionality of the Kenya EMR application by verifying both successful and failed login attempts with various scenarios. The tests ensure that:

1. **Successful Login:** The user can log in with valid credentials and access the landing page.
2. **Invalid Password Handling:** The application shows an appropriate error message when an incorrect password is entered.
3. **Invalid Username Handling:** The application shows an appropriate error message when an incorrect username is entered.
4. **Invalid Credentials Handling:** The application shows an appropriate error message when both username and password are incorrect.
5. **Special Characters in Username:** The application handles usernames with special characters correctly and shows an error message for invalid credentials.

Assumptions Made

1. **Selectors:** The CSS selectors used (e.g., `#username`, `#password`, `#continue`, `button[type="submit"]`) correctly identify the elements on the login page.
2. **Element Visibility:** The presence of specific elements on the landing page (e.g., 'Total Visits Today') confirms a successful login.
3. **Error Messages:** The error message 'Invalid username or password' is displayed for incorrect login attempts.
4. **Timeout Values:** The custom timeout values are sufficient to account for network delays or slow page responses.
5. **Environment:** The tests assume that the application environment (URL) and credentials are correct and that no additional authentication steps are required.

Instructions to Run the Script

1. **Setup Cypress:**
   - Ensure that Node.js and npm are installed on your machine.
   - Install Cypress in your project if not already installed:

     ```bash
     Copy code
     npm install cypress --save-dev
     ```

2. **Create Test File:**
   - Save the provided test script in a file within the `cypress/e2e` directory, e.g., `khmisLoginVerification.cy.js`.

3. **Open Cypress Test Runner:**
   - o Launch the Cypress Test Runner to execute the tests:

     ```bash
     Copy code
     npx cypress open
     ```

   - o This will open the Cypress Test Runner where you can select and run the `khmisLoginVerificationcy.cy.js` file.

4. **Run Tests from Command Line (Optional):**
   - o To run the tests headlessly from the command line and generate a report:

     ```bash
     Copy code
     npx cypress run --spec cypress/e2e/
     khmisLoginVerificationcy.cy.spec.js
     ```