Validation of User Login Algorithm:

1. User accesses the login page (`login.html`):
   - ➤ User enters the username and password.
   - ➤ User submits the form by clicking the "Login" button.
   - ➤ The form data is sent to the `/login` URL.

2. `LoginServlet` servlet receives the request:
   - ➤ The servlet retrieves the username and password from the request parameters.
   - ➤ It checks if the username and password are valid (in this case, hardcoded as "admin" and "password").
   - ➤ If the login is valid:
   - ➤ The servlet sets a session attribute to indicate a successful login (`loggedIn` = true).
   - ➤ The servlet redirects the user to the dashboard page (`/dashboard`).
   - ➤ If the login is invalid:
   - ➤ The servlet redirects the user to the login error page (`login-error.html`).

3. `DashboardServlet` receives the request:
   - ➤ The servlet checks if the user is logged in by checking the session attribute (`loggedIn`).
   - ➤ If the user is logged in:
   - ➤ The servlet displays the dashboard page, welcoming the user and indicating a successful login.
   - ➤ The servlet provides a logout link (`/logout`) for the user to log out.
   - ➤ If the user is not logged in:
   - ➤ The servlet redirects the user back to the login page (`login.html`).

4. `LogoutServlet` receives the request:
   - ➤ The servlet invalidates the session (clears session data) to log the user out.
   - ➤ The servlet redirects the user back to the login page (`login.html`).