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`).