

Internet Programming – SECJ 3303

Lab Exercise 2

Objective: To create a web application with MVC architecture.

Components:

LoginController.java :- This is controller part of the application which communicates with model.

Auth.java :- The component which contains the business logic for authentication. This is to validate input values are correct with corresponding roles and return the user role – admin, coach, trainee or invalid to the caller.

User.java :- The model which stores username and password for the user.

errorPage.jsp :- The view part - If login is not successful then this page is displayed.

loginPage.jsp :- The page with input form - username and password

adminPage.jsp :- If login as admin is successful, then this page is displayed

coachPage.jsp :- If login as coach is successful then this page is displayed

traineePage.jsp :- If login as registered trainee is successful, then this page is displayed.

Steps:

1. Create a new Dynamic web project in STS by clicking
2. File -> New -> Dynamic Web Project. Fill the details i.e. project name, the server. Enter your project name as "LabExercise2".
3. Create LoginController.java (controller), Auth.java (model), User.java (model) loginPage.jsp, errorPage.jsp, adminPage.jsp, coachPage.jsp and traineePage.jsp (view) in the corresponding packages.

****Refer Slide 20-22 in MVC Slide.**

Notes:

Please use below username and password for corresponding roles.

Admin: username = admin, password = admin.

Coach: username = user1, password = user1.

Trainee: username = user2, password = user2.

A screenshot of a web browser window. The address bar shows 'localhost:8086/MVCAp2/'. Below the address bar, there is a form with two input fields: 'User Name : admin' and 'Password :'. To the right of the password field is a 'Login' button. The browser's navigation bar includes back, forward, and refresh icons.

Figure 1: Display for the loginPage.jsp with admin input.

A screenshot of a web browser window. The address bar shows 'localhost:8086/MVCAp2/controller'. The main content area displays 'Admin Page' in a large, bold, serif font. Below this, it says 'You are successfully logged in!' and 'Welcome admin'.

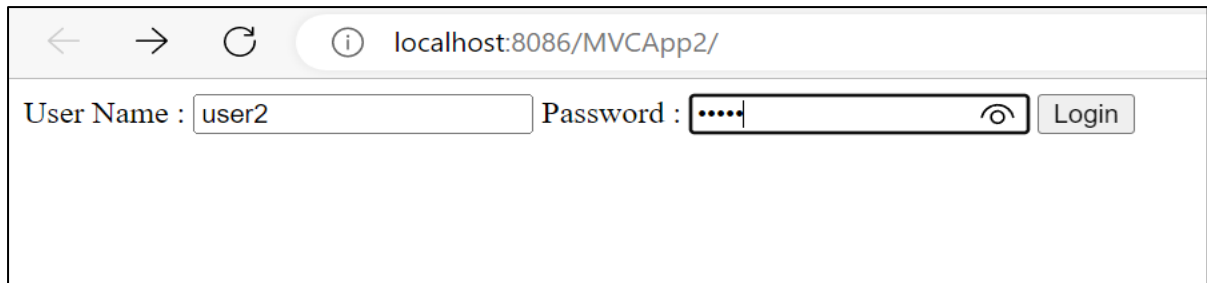
Figure 2: Display of the adminPage.jsp if the input for the admin is correct.

A screenshot of a web browser window. The address bar shows 'localhost:8086/MVCAp2/'. Below the address bar, there is a form with two input fields: 'User Name : user1' and 'Password :'. To the right of the password field is a 'Login' button. The browser's navigation bar includes back, forward, and refresh icons.

Figure 3: Display for the loginPage.jsp with coach input.

A screenshot of a web browser window. The address bar shows 'localhost:8086/MVCAp2/controller'. The main content area displays 'Coach Page' in a large, bold, serif font. Below this, it says 'You are successfully logged in!' and 'Welcome user1'.

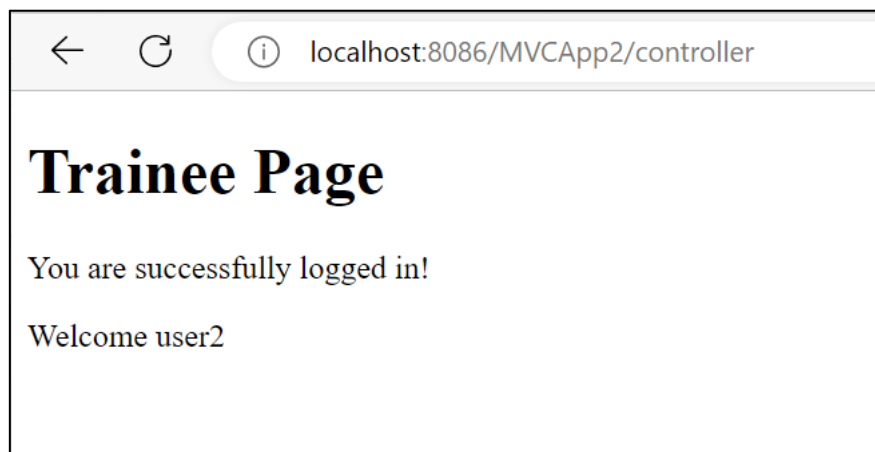
Figure 4: Display of the coachPage.jsp if the input for the coach is correct.



← → ↻ ⓘ localhost:8086/MVCAp2/

User Name : Password :

Figure 5: Display for the loginPage.jsp with trainee input.



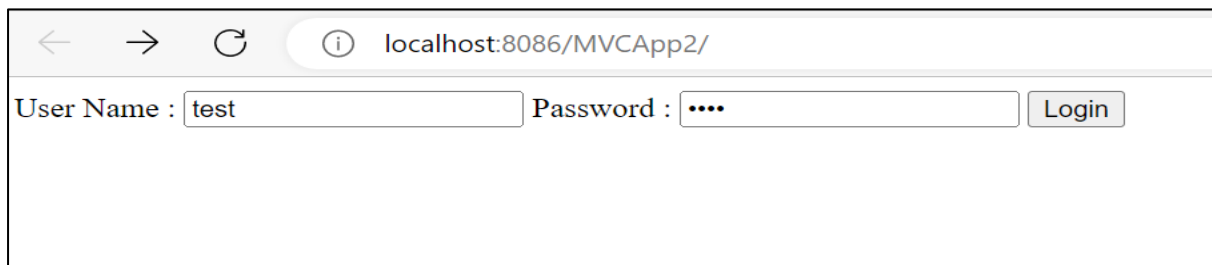
← ↻ ⓘ localhost:8086/MVCAp2/controller

Trainee Page

You are successfully logged in!

Welcome user2

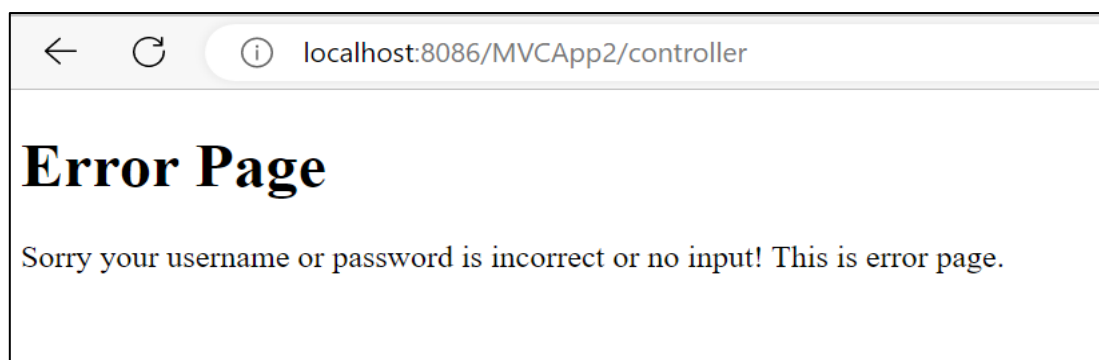
Figure 6: Display of the traineePage.jsp if the input for the trainee is correct.



← → ↻ ⓘ localhost:8086/MVCAp2/

User Name : Password :

Figure 7: Display for the loginPage.jsp with invalid input.



← ↻ ⓘ localhost:8086/MVCAp2/controller

Error Page

Sorry your username or password is incorrect or no input! This is error page.

Figure 8: Display of the errorPage.jsp if there is no input or invalid user credentials input.