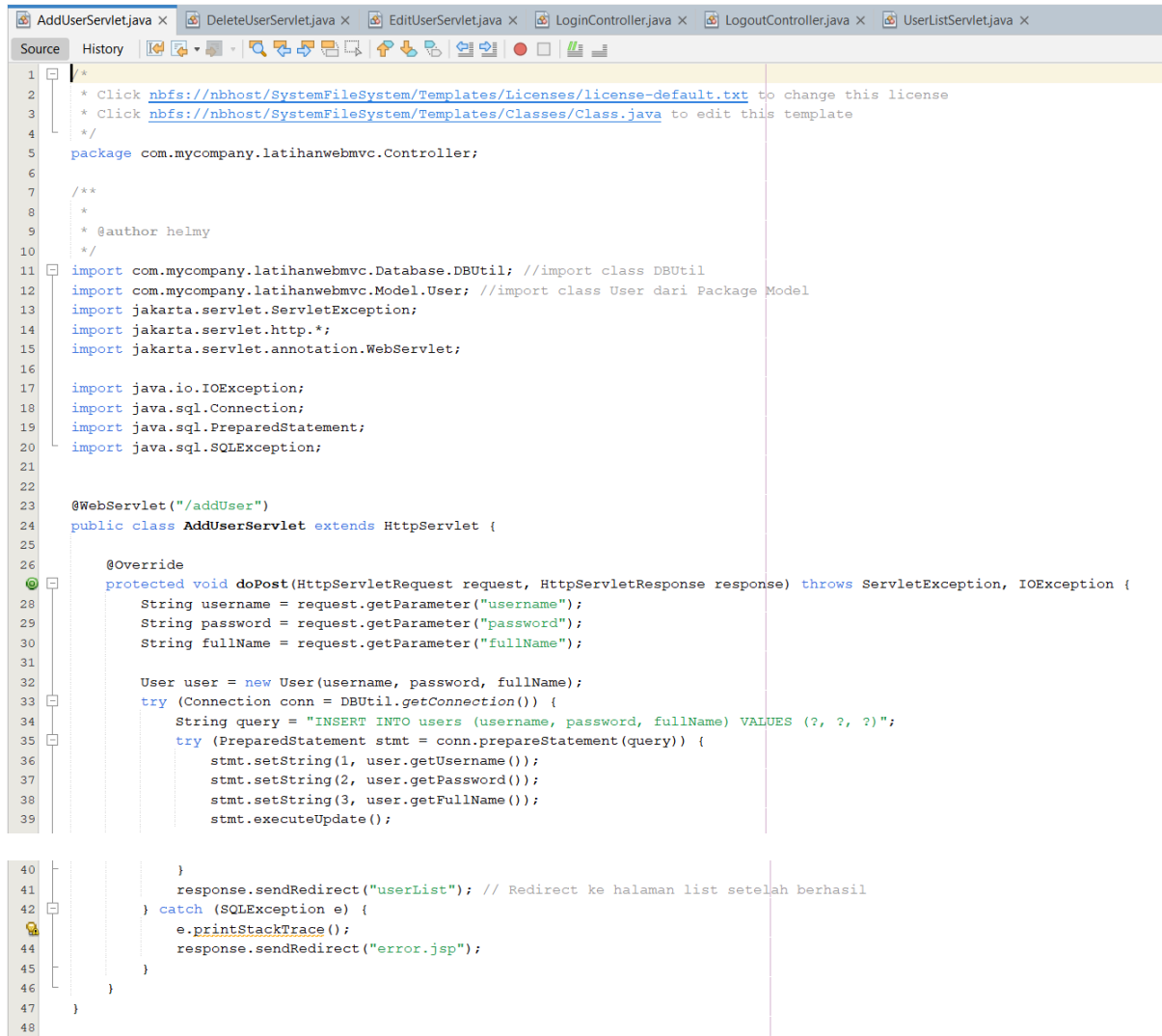


Finish the code

Pradipa Falah Putra Setiawan

IF-46-06 | 1301220270



```
1  /**
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4   */
5   package com.mycompany.latihanwebmvc.Controller;
6
7   /**
8    *
9    * @author helmy
10   */
11  import com.mycompany.latihanwebmvc.Database.DBUtil; //import class DBUtil
12  import com.mycompany.latihanwebmvc.Model.User; //import class User dari Package Model
13  import jakarta.servlet.ServletException;
14  import jakarta.servlet.http.*;
15  import jakarta.servlet.annotation.WebServlet;
16
17  import java.io.IOException;
18  import java.sql.Connection;
19  import java.sql.PreparedStatement;
20  import java.sql.SQLException;
21
22
23  @WebServlet("/addUser")
24  public class AddUserServlet extends HttpServlet {
25
26      @Override
27      protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
28          String username = request.getParameter("username");
29          String password = request.getParameter("password");
30          String fullName = request.getParameter("fullName");
31
32          User user = new User(username, password, fullName);
33          try (Connection conn = DBUtil.getConnection()) {
34              String query = "INSERT INTO users (username, password, fullName) VALUES (?, ?, ?)";
35              try (PreparedStatement stmt = conn.prepareStatement(query)) {
36                  stmt.setString(1, user.getUsername());
37                  stmt.setString(2, user.getPassword());
38                  stmt.setString(3, user.getFullName());
39                  stmt.executeUpdate();
40
41                  response.sendRedirect("userList"); // Redirect ke halaman list setelah berhasil
42              } catch (SQLException e) {
43                  e.printStackTrace();
44                  response.sendRedirect("error.jsp");
45              }
46          }
47      }
48  }
```

```
DeleteUserServlet.java x EditUserServlet.java x LoginController.java x LogoutController.java x UserListServlet.java x
Source History
1  /*
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12  import com.mycompany.latihanwebmvc.Model.User; //import class User dari Package Model
13  import jakarta.servlet.ServletException;
14  import jakarta.servlet.http.*;
15  import jakarta.servlet.annotation.WebServlet;
16  import java.io.IOException;
17  import java.sql.Connection;
18  import java.sql.PreparedStatement;
19  import java.sql.SQLException;
20  import java.util.logging.Level;
21  import java.util.logging.Logger;
22
23  @WebServlet("/deleteUser")
24  public class DeleteUserServlet extends HttpServlet {
25
26      @Override
27      protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
28          int userId = Integer.parseInt(request.getParameter("id"));
29          try (Connection conn = DBUtil.getConnection()) {
30              String query = "DELETE FROM users WHERE id = ?";
31              try (PreparedStatement stmt = conn.prepareStatement(query)) {
32                  stmt.setInt(1, userId);
33                  stmt.executeUpdate();
34              }
35              response.sendRedirect("userList");
36          } catch (SQLException e) {
37              e.printStackTrace();
38              response.sendRedirect("error.jsp");
39          }
40      }
41  }
42  }
```

```

EditUserServlet.java X LoginController.java X LogoutController.java X UserListServlet.java X
Source History
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5  package com.mycompany.latihanwebmvc.Controller;
6
7  /**
8   *
9   * @author helmy
10  */
11
12  import com.mycompany.latihanwebmvc.Database.DBUtil; //import class DBUtil
13  import com.mycompany.latihanwebmvc.Model.User; //import class User dari Package Model
14  import jakarta.servlet.ServletException;
15  import jakarta.servlet.http.*;
16  import jakarta.servlet.annotation.WebServlet;
17  import java.io.IOException;
18  import java.sql.Connection;
19  import java.sql.PreparedStatement;
20  import java.sql.ResultSet;
21  import java.sql.SQLException;
22  import java.util.logging.Level;
23  import java.util.logging.Logger;
24
25  @WebServlet("/editUser")
26  public class EditUserServlet extends HttpServlet {
27
28      @Override
29      protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
30          int userId = Integer.parseInt(request.getParameter("id"));
31          User user = null;
32          try (Connection conn = DBUtil.getConnection()) {
33              String query = "SELECT * FROM users WHERE id = ?";
34              try (PreparedStatement stmt = conn.prepareStatement(query)) {
35                  stmt.setInt(1, userId);
36                  ResultSet rs = stmt.executeQuery();
37                  if (rs.next()) {
38                      user = new User(
39                          rs.getInt("id"),
40                          rs.getString("username"),
41                          rs.getString("password"),
42                          rs.getString("fullName")
43                      );
44                  }
45                  request.setAttribute("user", user);
46                  request.getRequestDispatcher("/editUser.jsp").forward(request, response);
47              } catch (SQLException e) {
48                  e.printStackTrace();
49                  response.sendRedirect("error.jsp");
50              }
51          }
52
53      @Override
54      protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
55          int userId = Integer.parseInt(request.getParameter("id"));
56          String username = request.getParameter("username");
57          String password = request.getParameter("password");
58          String fullName = request.getParameter("fullName");
59
60          User user = new User(userId, username, password, fullName);
61          try (Connection conn = DBUtil.getConnection()) {
62              String query = "UPDATE users SET username = ?, password = ?, fullName = ? WHERE id = ?";
63              try (PreparedStatement stmt = conn.prepareStatement(query)) {
64                  stmt.setInt(4, user.getId());
65                  stmt.setString(1, user.getUsername());
66                  stmt.setString(2, user.getPassword());
67                  stmt.setString(3, user.getFullName());
68                  stmt.executeUpdate();
69              }
70              response.sendRedirect("userList");
71          } catch (SQLException e) {
72              e.printStackTrace();
73              response.sendRedirect("error.jsp");
74          }
75      }
76  }
77

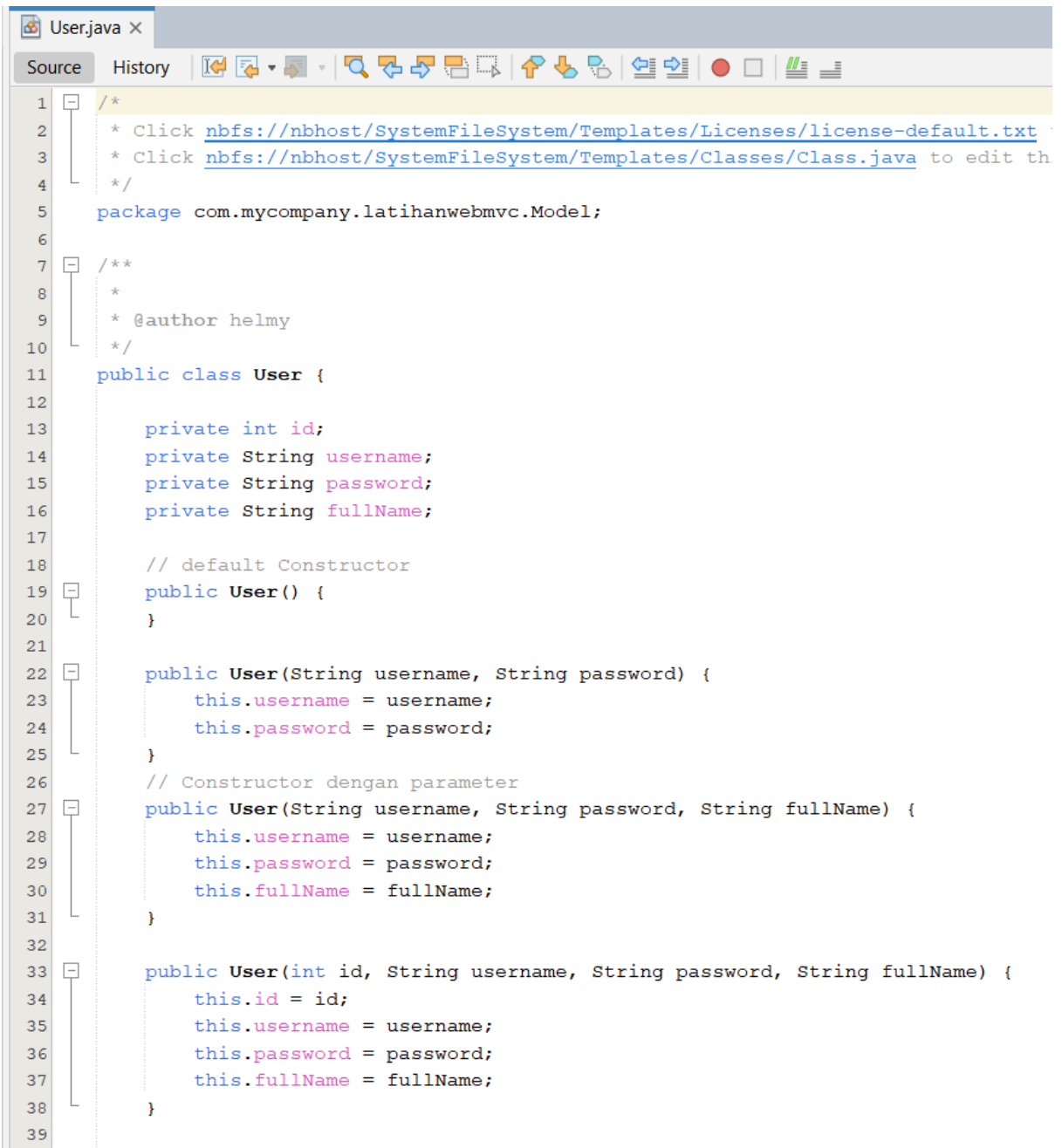
```

```
LoginController.java x LogoutController.java x UserListServlet.java x
Source History
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5  package com.mycompany.latihanwebmvc.Controller;
6
7  /**
8   *
9   * @author helmy
10  */
11  import com.mycompany.latihanwebmvc.Model.User; //import class User dari Package Model
12  import jakarta.servlet.ServletException;
13  import jakarta.servlet.http.*;
14  import jakarta.servlet.annotation.WebServlet;
15
16  import java.io.IOException;
17
18  @WebServlet("/login")
19  public class LoginController extends HttpServlet {
20
21      @Override
22      protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
23          try {
24              // Ambil parameter dari view form login
25              String username = request.getParameter("username");
26              String password = request.getParameter("password");
27
28              // create objek User dari inputan form login
29              User user = new User(username, password);
30
31              // panggil method Validasi login dari objek User
32              if (user.isValidUser()) {
33                  // Jika login berhasil, arahkan ke halaman welcome.jsp
34                  HttpSession session = request.getSession();
35                  session.setAttribute("user", user); // Menyimpan objek User dalam session
36                  response.sendRedirect("welcome.jsp");
37              } else {
38                  // Jika login gagal, set error message dan tampilkan lagi login.jsp
39                  request.setAttribute("errorMessage", "username atau password anda salah!");
40
41                  request.getRequestDispatcher("/login.jsp").forward(request, response);
42              }
43          } catch (ServletException | IOException e) {
44              // Jika ada error, tampilkan error page
45              response.sendError(HttpServletResponse.SC_INTERNAL_SERVER_ERROR, "Terjadi kesalahan dalam memproses request");
46          }
47      }
48  }
49
```

```
LogoutController.java x UserListServlet.java x
Source History
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4  */
5  package com.mycompany.latihanwebmvc.Controller;
6
7  /**
8   *
9   * @author helmy
10  */
11
12  import jakarta.servlet.ServletException;
13  import jakarta.servlet.annotation.WebServlet;
14  import jakarta.servlet.http.*;
15  import java.io.IOException;
16
17  @WebServlet("/logout")
18  public class LogoutController extends HttpServlet {
19
20      @Override
21      protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
22          // Menghapus session pengguna
23          HttpSession session = request.getSession(false);
24          if (session != null) {
25              session.invalidate(); // Menghapus session yang aktif
26          }
27          response.sendRedirect("login.jsp"); // Arahkan ke halaman login setelah logout
28      }
29  }
30
```

```
UserListServlet.java X
Source History
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4   */
5   package com.mycompany.latihanwebmvc.Controller;
6
7   import com.mycompany.latihanwebmvc.Database.DBUtil; //import class DBUtil
8   import com.mycompany.latihanwebmvc.Model.User; //import class User dari Package Model
9   import jakarta.servlet.ServletException;
10  import jakarta.servlet.http.*;
11  import jakarta.servlet.annotation.WebServlet;
12
13  import java.io.IOException;
14  import java.sql.Connection;
15  import java.sql.ResultSet;
16  import java.sql.SQLException;
17  import java.sql.Statement;
18  import java.util.ArrayList;
19  import java.util.List;
20
21  /**
22   *
23   * @author helmy
24   */
25  @WebServlet("/userList")
26  public class UserListServlet extends HttpServlet {
27
28      @Override
29      protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
30          List<User> users = new ArrayList<>();
31          try (Connection conn = DBUtil.getConnection()) {
32              String query = "SELECT * FROM users";
33              try (Statement stmt = conn.createStatement()) {
34                  ResultSet rs = stmt.executeQuery(query);
35
36                  while (rs.next()) {
37                      User user = new User(
38                          rs.getInt("id"),
39                          rs.getString("username"),
```

```
DBUtil.java X
Source History
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
4   */
5   package com.mycompany.latihanwebmvc.Database;
6
7   /**
8   *
9   * @author helmy
10  */
11  import java.sql.Connection;
12  import java.sql.DriverManager;
13  import java.sql.SQLException;
14
15  public class DBUtil {
16      private static final String URL = "jdbc:mariadb://localhost:3306/jdbc_latihan"; //url database
17      private static final String USER = "root"; // user database
18      private static final String PASSWORD = ""; // password database
19
20      static {
21          try {
22              Class.forName("org.mariadb.jdbc.Driver");
23          } catch (ClassNotFoundException e) {
24              e.printStackTrace();
25          }
26      }
27
28      public static Connection getConnection() throws SQLException {
29          return DriverManager.getConnection(URL, USER, PASSWORD);
30      }
31  }
32
```



```
1  /*
2   * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
3   * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit th
4   */
5   package com.mycompany.latihanwebmvc.Model;
6
7   /**
8    *
9    * @author helmy
10   */
11   public class User {
12
13       private int id;
14       private String username;
15       private String password;
16       private String fullName;
17
18       // default Constructor
19       public User() {
20       }
21
22       public User(String username, String password) {
23           this.username = username;
24           this.password = password;
25       }
26       // Constructor dengan parameter
27       public User(String username, String password, String fullName) {
28           this.username = username;
29           this.password = password;
30           this.fullName = fullName;
31       }
32
33       public User(int id, String username, String password, String fullName) {
34           this.id = id;
35           this.username = username;
36           this.password = password;
37           this.fullName = fullName;
38       }
39   }
```

```
40 // Getter dan Setter untuk username
41 public int getId() {
42     return id;
43 }
44
45 public void setId(int id) {
46     this.id = id;
47 }
48
49 public String getUsername() {
50     return username;
51 }
52
53 public void setUsername(String username) {
54     this.username = username;
55 }
56
57 public String getPassword() {
58     return password;
59 }
60
61 public void setPassword(String password) {
62     this.password = password;
63 }
64
65 public String getFullName() {
66     return fullName;
67 }
68
69 public void setFullName(String fullName) {
70     this.fullName = fullName;
71 }
72
73 // Validasi login (contoh saja kita kasih hardcode untuk username "admin" dan
74 public boolean isValidUser() {
75     return "aa".equals(username) && "aaa".equals(password);
76 }
77 }
78
```

```
UserList.jsp x
Source History
Document : UserList
Created on : Dec 3, 2024, 7:09:32 AM
Author : helmy

<!--
Document : UserList
Created on : Dec 3, 2024, 7:09:32 AM
Author : helmy
-->

<%@ page contentType="text/html; charset=UTF-8" language
="java" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<%
if (session.getAttribute("user") == null) {
    response.sendRedirect("login.jsp");
}
%>

<html>
<head>
<title>User List</title>
</head>
<body>
<h2>User List</h2>

<table border="1">
<thead>
<tr>
<th>ID</th>
<th>Username</th>
<th>Full Name</th>
<th>Actions</th>
</tr>
</thead>
<tbody>

<c:forEach var="user" items="${users}">
<tr>
<td>${user.id}</td>
<td>${user.username}</td>
<td>${user.fullName}</td>
<td>
<a href="editUser?id=${user.id}">Edit</a> |
<a href="deleteUser?id=${user.id}">Delete</a>
</td>
</tr>
</c:forEach>
</tbody>
</table>

<a href="addUser.jsp">Tambah User Baru</a>

</body>
</html>
```



```
addUser.jsp x
Source History
<!--
2 Document : addUser
3 Created on : Dec 11, 2024, 9:13:35 PM
4 Author : dipay
5 -->
6
7 <%@page contentType="text/html" pageEncoding="UTF-8"%>
8 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
9
10 <%
11     if (session.getAttribute("user") == null) {
12         response.sendRedirect("login.jsp");
13     }
14 %>
15 <!DOCTYPE html>
16 <html>
17     <head>
18         <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
19         <title>JSP Page</title>
20     </head>
21     <body>
22         <h1>Tambahkan user</h1>
23
24         <form action="addUser" method="post">
25             <input type="hidden" name="id" value="${user.id}">
26             <label for="username">Username:</label>
27             <input type="text" name="username" value="${user.username}" required><br><br>
28
29             <label for="password">Password:</label>
30             <input type="password" name="password" value="${user.password}" required><br><br>
31
32             <label for="fullName">Full Name:</label>
33             <input type="text" name="fullName" value="${user.fullName}" required><br><br>
34
35             <button type="submit">Add User</button>
36         </form>
37     </body>
38 </html>
39
```

```
editUser.jsp x
Source History
<!--
Document : editUser
Created on : Dec 3, 2024, 7:10:29 AM
Author : helmy
-->

<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%
    if (session.getAttribute("user") == null) {
        response.sendRedirect("login.jsp");
    }
%>

<html>
<head>
    <title>Edit User</title>
</head>
<body>
    <h2>Edit User</h2>

    <form action="editUser" method="post">
        <input type="hidden" name="id" value="${user.id}">
        <label for="username">Username:</label>
        <input type="text" name="username" value="${user.username}" required<br><br>

        <label for="password">Password:</label>
        <input type="password" name="password" value="${user.password}" required<br><br>

        <label for="fullName">Full Name:</label>
        <input type="text" name="fullName" value="${user.fullName}" required<br><br>

        <button type="submit">Update User</button>
    </form>
</body>
</html>
```

```
index.html x
Source History
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <meta charset="UTF-8">
5     <title>Halaman login</title>
6 </head>
7 <body>
8     <h1>Selamat Datang di halaman login</h1>
9     <a href="login.jsp">klik disini untuk login</a>
10 </body>
11 </html>
12
```

```
login.jsp x
Source History
Document : login
Created on : 26 Nov 2024, 10.58.49
Author : helmy

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>
<head>
<title>Halaman Login</title>
</head>
<body>
<h2>Login</h2>

<form action="login" method="post">
<label for="username">Username:</label>
<input type="text" id="username" name="username" required><br><br>

<label for="password">Password:</label>
<input type="password" id="password" name="password" required><br><br>

<button type="submit">Login</button>
</form>

<!-- Tampilkan pesan error jika login gagal -->
<c:if test="${not empty errorMessage}">
<p style="color:red;">${errorMessage}</p>
</c:if>

<!-- Cek apakah pengguna sudah login, jika sudah, redirect ke welcome.jsp -->
<c:if test="${not empty user}">
<p>You are already logged in. <a href="welcome.jsp">Go to Welcome Page</a></p>
</c:if>
</body>
</html>
```

```
welcome.jsp x
Source History
1 <!--
2 Document : welcome
3 Created on : 26 Nov 2024, 11.03.33
4 Author : helmy
5 -->
6
7 <%@page contentType="text/html" pageEncoding="UTF-8"%>
8 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
9
10 <html>
11 <head>
12 <title>Welcome Page</title>
13 </head>
14 <body>
15 <h2>Selamat datang, ${user.username}! anda berhasil Login!</h2> <!-- Menampilkan nama pengguna yang login -->
16
17 <form action="userList" method="get">
18 <button type="submit">List</button>
19 </form>
20
21 <!-- Tombol untuk logout -->
22 <form action="logout" method="get">
23 <button type="submit">Logout</button>
24 </form>
25 </body>
26 </html>
27
28
```

Demo:

