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Latihan PBO: Quiz-FInish-the-Code IF-46-06 1301223387

url github = https://github.com/AHyphaG/Quiz-FInish-the-Code IF-46-06 1301223387

WEB PAGES

Index.html

Login.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
- <html>
- <head>
     <title>Halaman Login</title>
 </head>
d <body>
     <h2>Login</h2>
<form action="login" method="post">
        <label for="username">Username:</label>
         <label for="password">Password:</label>
         <input type="password" id="password" name="password" required><br><br>
        <button type="submit">Login
     </form>
     <!-- Tampilkan pesan error jika login gagal -->
₽
     <c:if test="${not empty errorMessage}">
     ${errorMessage}
     <!-- Cek apakah pengguna sudah login, jika sudah, redirect ke welcome.jsp --
中
     <c:if test="${not empty user}">
        You are already logged in. <a href="welcome.jsp">Go to Welcome Page</a>
     </c:if>
  </body>
  </html>
```

Welcome.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
   <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
- <%
      if (session.getAttribute("user")==null){
         response.sendRedirect("login.jsp");
          return;
      }
- %>
- <html>
<head>
      <title>Welcome Page</title>
   </head>
- <body>
      <h2>Selamat datang, ${user.username}! anda berhasil Login!</h2>
      <!-- Tombol untuk logout -->
中
      <form action="userList" method="get">
          <button type="submit">List User</button>
      </form>
Ė
      <form action="logout" method="get">
          <button type="submit">Logout</button>
      </form>
 </body>
</html>
```

```
="java" %>
  <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
     if (session.getAttribute("user")==null) {
        response.sendRedirect("login.jsp");
        return;
  %>
- <html>
- <head>
  <title>User List</title>
- </head>
- <body>
     <h2>User List</h2>
中日中
     <thead>
            ID
               Username
               Full Name
               Actions
            </thead>
         <c:forEach var="user" items="${users}">
               ${user.id}
                  ${user.username}
                  ${user.fullName}
白
                      <a href="editUser?id=${user.id}">Edit</a> |
                      <a href="deleteUser?id=${user.id}">Delete</a>
                  <a href="editUser?id=${user.id}">Edit</a> |
                      <a href="deleteUser?id=${user.id}">Delete</a>
                  </c:forEach>
        <a href="addUser.jsp">Tambah User Baru</a>
  </body>
  </html>
```

```
addUser.jsp
```

```
<%@ 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");
          return;
      }
  %>
  <!DOCTYPE html>
- <html>
      <head>
          <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
          <title>JSP Page</title>
      </head>
中
      <body>
          <form action="addUser" method="post">
             <label for="username">Username:</label>
              <input type="text" id="username" name="username" required><br><br></pr>
              <label for="password">Password:</label>
              <input type="password" id="password" name="password" required><br><br>
              <label for="fullName">Nama Panjang:</label>
              <input type="text" id="fullName" name="fullName" required><br><br></pr>
              <button type="submit">Daftar
      </body>
   </html>
```

editUser.jsp

```
<%@ 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");
           return:
%>
- <html>
- <head>
      <title>Edit User</title>
  </head>
= <body>
      <h2>Edit User</h2>
白
       <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/>><br/>><br/>
           <label for="password">Password:</label>
           <input type="password" name="password" value="${user.password}" required <br/><br/>br><br/>
           <label for="fullName">Full Name:</label>
           <input type="text" name="fullName" value="${user.fullName}" required><br/>>br><br/>
           <button type="submit">Update User</button>
       </form>
  </body>
  </html>
```

BACKEND

AddUserServlet.java

```
@WebServlet("/addUser")
  public class AddUserServlet extends HttpServlet {
      @Override
      protected void doPost(HttpServletRequest request, HttpServletResponse response)
尋▮
             throws ServletException, IOException {
          String username = request.getParameter("username");
          String password = request.getParameter("password");
          String fullName = request.getParameter("fullName");
          User user = new User(username, password, fullName);
          try (Connection conn = DBUtil.getConnection()) {
              String query = "INSERT INTO users (username, password, full_name) VALUES (?, ?, ?)";
              try (PreparedStatement stmt = conn.prepareStatement(query)) {
                  stmt.setString(1, user.getUsername());
                  stmt.setString(2, user.getPassword());
                  stmt.setString(3, user.getFullName());
                  stmt.executeUpdate();
              response.sendRedirect("userList");
          } catch (SQLException e) {
白
              e.printStackTrace();
              response.sendRedirect("error.jsp");
```

DeleteUserServlet.java

```
@WebServlet("/deleteUser")
  public class DeleteUserServlet extends HttpServlet {
      protected void doGet(HttpServletRequest request, HttpServletResponse response)
豆
             throws ServletException, IOException {
          int userId = Integer.parseInt(request.getParameter("id"));
中
          try (Connection conn = DBUtil.getConnection()) {
              String query = "DELETE FROM users WHERE id = ?";
\Box
              try (PreparedStatement stmt = conn.prepareStatement(query)) {
                  stmt.setInt(1, userId);
                  stmt.executeUpdate();
              response.sendRedirect("userList");
\Box
          } catch (SQLException e) {
              e.printStackTrace();
             response.sendRedirect("error.jsp");
  }
```

EditUserServlet.java

```
@WebServlet("/editUser")
   public class EditUserServlet extends HttpServlet {
       protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
           int userId = Integer.parseInt(request.getParameter("id"));
           User user = null;
           try (Connection conn = DBUtil.getConnection()) {
                String query = "SELECT * FROM users WHERE id = ?";
                try (PreparedStatement stmt = conn.prepareStatement(query)) {
                    stmt.setInt(1, userId);
                    ResultSet rs = stmt.executeQuery();
                    if (rs.next()) {
                        user = new User(
                            rs.getInt("id"),
                            rs.getString("username"),
                            rs.getString("password"),
                            rs.getString("full_name")
                request.setAttribute("user", user);
                request.getRequestDispatcher("/editUser.jsp").forward(request, response);
            } catch (SQLException e) {
                e.printStackTrace();
                response.sendRedirect("error.jsp");
      protected void doPost(HttpServletRequest request, HttpServletResponse response)
豆
           throws ServletException, IOException {
         int userId = Integer.parseInt(request.getParameter("id"));
         String username = request.getParameter("username");
         String password = request.getParameter("password");
         String fullName = request.getParameter("fullName");
         User user = new User(userId, username, password, fullName);
白
         try (Connection conn = DBUtil.getConnection()) {
             String query = "UPDATE users SET username = ?, password = ?, full name = ? WHERE id = ?";
             try (PreparedStatement stmt = conn.prepareStatement(query)) {
                stmt.setString(1, user.getUsername());
                 stmt.setString(2, user.getPassword());
                 stmt.setString(3, user.getFullName());
                 stmt.setInt(4, user.getId());
                 stmt.executeUpdate();
             response.sendRedirect("userList");
         } catch (SQLException e) {
             e.printStackTrace();
             response.sendRedirect("error.jsp");
```

LoginController.java

```
@WebServlet("/login")
   public class LoginController extends HttpServlet {
       protected void doPost(HttpServletRequest request, HttpServletResponse response)
밁
             throws ServletException, IOException {
               // Ambil parameter dari view form login
              String username = request.getParameter("username");
              String password = request.getParameter("password");
               // create objek User dari inputan form login
              User user = new User(username, password);
                 panggil method Validasi login dari objek User
               if (user.isValidUser()) {
                   // Jika login berhasil, arahkan ke halaman welcome.jsp
                  HttpSession session = request.getSession();
                   session.setAttribute("user", user); // Menyimpan objek User dalam session
                  response.sendRedirect("welcome.jsp");
              } else {
    // Jika login gagal, set error message dan tampilkan lagi login.jsp
                  request.setAttribute("errorMessage", "username atau password anda salah!");
                  request.getRequestDispatcher("/login.jsp").forward(request, response);
₽
          } catch (ServletException | IOException e) {
               // Jika ada error, tampilkan error page
               response.sendError(HttpServletResponse.SC INTERNAL SERVER ERROR, "Terjadi kesalahan dalam memproses request");
```

LogoutController.java

UserListServlet.java

```
@WebServlet("/userList")
   public class UserListServlet extends HttpServlet {
       protected void doGet(HttpServletRequest request, HttpServletResponse response)
Ē
              throws ServletException, IOException {
          List<User> users = new ArrayList<>();
           System.out.println("Koneksi belum terhubung");
\dot{\Box}
           try (Connection conn = DBUtil.getConnection()) {
               System.out.println("Koneksi berhasil");
               String query = "SELECT * FROM users";
               try (Statement stmt = conn.createStatement()) {
                   ResultSet rs = stmt.executeQuery(query);
                   while (rs.next()) {
                       User user = new User(
                           rs.getInt("id"),
                          rs.getString("username"),
                          rs.getString("password"),
                          rs.getString("full_name")
                       );
                       users.add(user);
               request.setAttribute("users", users);
              request.getRequestDispatcher("UserList.jsp").forward(request, response);
白
           } catch (SQLException e) {
              e.printStackTrace();
              response.sendRedirect("error.jsp");
```

MODEL

User.java

```
* @author helmy
  public class User {
      private int id;
      private String username;
      private String password;
      private String fullName;
      // default Constructor
딘
     public User() {
      // Constructor dengan parameter
      public User(String username, String password, String fullName) {
         this.username = username;
         this.password = password;
         this.fullName = fullName;
_
      public User(String username, String password) {
         this.username = username;
         this.password = password;
public User(int id, String username, String password, String fullName) {
          this.id = id;
          this.username = username;
         this.password = password;
         this.fullName = fullName;
      // Getter dan Setter untuk username
戸
      public int getId() {
      return id;
public void setId(int id) {
      this.id = id;
```

```
public String getUsername() {
           return username;
 口
        public void setUsername(String username) {
           this.username = username;
 public String getPassword() {
        return password;
public void setPassword(String password) {
        this.password = password;
 public String getFullName() {
        return fullName;
_
        public void setFullName(String fullName) {
        this.fullName = fullName;
      // Validasi login (contoh saja kita kasih hardcode untuk username "admin" dah password "admin123")
무무
      public boolean isValidUser() {
         try (Connection conn = DBUtil.getConnection()) {
             String query = "select * from users where username = ?";
中
             try (PreparedStatement stmt = conn.prepareStatement(query)) {
                stmt.setString(1, this.username);
                try(ResultSet rs = stmt.executeQuery()){
                    if (rs.next()) {
                       return rs.getString("password").equals(this.password);
         } catch (SQLException e) {
           return false;
           return "admin".equals(username) && "admin123".equals(password);
         return false;
DBUtil.java
```

```
public class DBUtil {
    private static final String URL = "jdbc:mariadb://localhost:3306/jdbc_latihan"; //url database
    private static final String USER = "root"; // user database
    private static final String PASSWORD = ""; // password database

static {
    try {
        Class.forName("org.mariadb.jdbc.Driver");
    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    }
}

public static Connection getConnection() throws SQLException {
        return DriverManager.getConnection(URL, USER, PASSWORD);
    }
}
```