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// ********************** LOGIN SERVLET ***************************** //
package client;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpSession;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class Login extends HttpServlet {

   protected void doPost(HttpServletRequest request, HttpServletResponse response)
         throws ServletException, IOException {

      PrintWriter out = response.getWriter();

      String email = request.getParameter("email");
      String password = request.getParameter("password");
      String role = request.getParameter("role");

      try {
         // Establish the connection
         Connection connection = getConnection();

         // Create a SQL statement with parameterized query
         String selectQuery = "";
         if ("employer".equals(role)) {
            selectQuery = "SELECT * FROM jm_company WHERE email=? AND password=?";
         } else if ("admin".equals(role)) {
            selectQuery = "SELECT * FROM jm_admin WHERE email=? AND password=?";
         } else if ("jobseeker".equals(role)) {
            selectQuery = "SELECT * FROM jm_jobseeker WHERE email=? AND password=?";
         } else {
            // Invalid role, handle accordingly (redirect or show error)
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            out.println("<script>alert('Invalid Role'); window.location.href='./Client/Login.jsp';</script>");
            return;
        }

        try (PreparedStatement preparedStatement = connection.prepareStatement(selectQuery)) {
            // Set parameters for the query
            preparedStatement.setString(1, email);
            preparedStatement.setString(2, password);

            // Execute the query
            try (ResultSet resultSet = preparedStatement.executeQuery()) {
                // Check if any rows are returned
                if (resultSet.next()) {
                    // Retrieve the id from the result set
                    int id = resultSet.getInt("id");
                    // User exists, set session and redirect to the appropriate dashboard
                    HttpSession session = request.getSession();
                    session.setAttribute("email", email);
                    session.setAttribute("role", role);
                    session.setAttribute("id", id);

                    if ("employer".equals(role)) {
                        response.sendRedirect("./Admin/Dashboard.jsp");
                    } else if ("admin".equals(role)) {
                        response.sendRedirect("./Admin/Dashboard.jsp");
                    } else if ("jobseeker".equals(role)) {
                        response.sendRedirect("./Admin/Dashboard.jsp");
                    }
                } else {
                    // User not found, display error message
                    out.println("<script>alert('Invalid Credentials');
window.location.href='./Client/Login.jsp';</script>");
                }
            }
        }

        // Close the connection
        connection.close();

    } catch (Exception e) {
        // Display error message
        out.println("<h2>Error getting data:</h2>");
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            out.println("<p>" + e.getMessage() + "</p>");
            e.printStackTrace();
        }
    }

    private Connection getConnection() throws SQLException, ClassNotFoundException {
        String jdbcUrl = "jdbc:mysql://localhost:3306/job_management";
        String dbUser = "root";
        String dbPassword = "";

        // Load the JDBC driver
        Class.forName("com.mysql.cj.jdbc.Driver");

        // Establish the connection
        return DriverManager.getConnection(jdbcUrl, dbUser, dbPassword);
    }
}
// ********************** COMPANY  REGISTER SERVLET ************************** //
package company;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class CompanyRegisterServlet extends HttpServlet {

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {

        PrintWriter out = response.getWriter();

        String name = request.getParameter("name");
        String email = request.getParameter("email");
        String password = request.getParameter("password");
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        String description = request.getParameter("description");
        String website = request.getParameter("website");
        String number = request.getParameter("number");
        String address = request.getParameter("address");
        String role = request.getParameter("role");
        String date = request.getParameter("date");

        try {
            // Establish the connection
            Connection connection = getConnection();

            // Create a SQL statement with parameterized query
            String insertQuery = "INSERT INTO jm_company (name, email, password, description, website,
number, address, role, establishment_date) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?)";

            try (PreparedStatement preparedStatement = connection.prepareStatement(insertQuery)) {
                // Set parameters for the query
                preparedStatement.setString(1, name);
                preparedStatement.setString(2, email);
                preparedStatement.setString(3, password);
                preparedStatement.setString(4, description);
                preparedStatement.setString(5, website);
                preparedStatement.setString(6, number);
                preparedStatement.setString(7, address);
                preparedStatement.setString(8, role);
                preparedStatement.setString(9, date);

                // Execute the query
                int rowsAffected = preparedStatement.executeUpdate();

                if (rowsAffected > 0) {
                    // Display success message and redirect after a delay
                    out.println("<script>alert('Company Registered Successfully');
window.location.href='./Client/Login.jsp';</script>");
                } else {
                    // Display error message
                    out.println("<script>alert('Error: Company Registration Failed');
window.location.href='./Client/Company/CompanyRegister.jsp';</script>");
                }
            }

            // Close the connection
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```
            connection.close();

        } catch (Exception e) {
            // Display error message
            out.println("<h2>Error inserting record:</h2>");
            out.println("<p>" + e.getMessage() + "</p>");
            e.printStackTrace();
        }
    }

    private Connection getConnection() throws SQLException, ClassNotFoundException {
        String jdbcUrl = "jdbc:mysql://localhost:3306/job_management";
        String dbUser = "root";
        String dbPassword = "";

        // Load the JDBC driver
        Class.forName("com.mysql.cj.jdbc.Driver");

        // Establish the connection
        return DriverManager.getConnection(jdbcUrl, dbUser, dbPassword);
    }
}

// ********************** LOGOUT SERVLET ***************************** //
package dashboard;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

public class Logout extends HttpServlet {

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");

        HttpSession session = request.getSession(false); // Get the existing session without creating a new
one
        if (session != null) {
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            session.invalidate(); // Invalidate the session
        }

        response.sendRedirect("./Client/Login.jsp");
    }

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        processRequest(request, response);
    }

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        processRequest(request, response);
    }

    @Override
    public String getServletInfo() {
        return "Logout Servlet";
    }
}
```