***Question 9 : Mini Blog Application***

* + ***Add/Edit/Delete blog posts using JSP/Servlet.***
  + ***Store in DB.***

***Show list of blogs on home page***

**Step1:**

**Create a new JSP file** addBlog.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Add Blog</title>

</head>

<body>

<h1>Add Blog Post</h1>

<form action="BlogServlet" method="post">

<input type="hidden" name="action" value="add">

<label for="title">Title:</label>

<input type="text" id="title" name="title" required><br><br>

<label for="content">Content:</label><br>

<textarea id="content" name="content" rows="10" cols="30" required></textarea><br><br>

<button type="submit">Add Blog</button>

</form>

<p><a href="home.jsp">Back to Home</a></p>

</body>

</html>

**Step2:  
Create a new JSP file** editBlog.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"* pageEncoding=*"UTF-8"*%>

<%@ page import=*"java.sql.\*"* %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Edit Blog</title>

</head>

<body>

<h1>Edit Blog Post</h1>

<%

int id = Integer.parseInt(request.getParameter("id"));

String title = "";

String content = "";

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection connection = DriverManager.getConnection("jdbc:mysql://localhost:3306/BlogDB", "root", "0000");

String sql = "SELECT \* FROM blog WHERE id = ?";

PreparedStatement statement = connection.prepareStatement(sql);

statement.setInt(1, id);

ResultSet rs = statement.executeQuery();

if (rs.next()) {

title = rs.getString("title");

content = rs.getString("content");

}

rs.close();

statement.close();

connection.close();

} catch (Exception e) {

e.printStackTrace();

}

%>

<form action=*"BlogServlet"* method=*"post"*>

<input type=*"hidden"* name=*"action"* value=*"edit"*>

<input type=*"hidden"* name=*"id"* value=*"*<%= id %>*"*>

<label for=*"title"*>Title:</label>

<input type=*"text"* id=*"title"* name=*"title"* value=*"*<%= title %>*"* required><br><br>

<label for=*"content"*>Content:</label><br>

<textarea id=*"content"* name=*"content"* rows=*"10"* cols=*"30"* required><%= content %></textarea><br><br>

<button type=*"submit"*>Update Blog</button>

</form>

<p><a href=*"home.jsp"*>Back to Home</a></p>

</body>

</html>

**Step3:**

**Create a new JSP file** home.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"* pageEncoding=*"UTF-8"*%>

<%@ page import=*"java.sql.\*"* %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Blog Home</title>

</head>

<body>

<h1>Blog Posts</h1>

<a href=*"addBlog.jsp"*>Add New Blog</a>

<table border=*"1"*>

<tr>

<th>ID</th>

<th>Title</th>

<th>Content</th>

<th>Actions</th>

</tr>

<%

try {

Class.forName("com.mysql.cj.jdbc.Driver");

Connection connection = DriverManager.getConnection("jdbc:mysql://localhost:3306/BlogDB", "root", "0000");

String sql = "SELECT \* FROM blog";

Statement statement = connection.createStatement();

ResultSet rs = statement.executeQuery(sql);

while (rs.next()) {

%>

<tr>

<td><%= rs.getInt("id") %></td>

<td><%= rs.getString("title") %></td>

<td><%= rs.getString("content") %></td>

<td>

<a href=*"editBlog.jsp?id=*<%= rs.getInt("id") %>*"*>Edit</a>

<a href=*"BlogServlet?action=delete&id=*<%= rs.getInt("id") %>*"*>Delete</a>

</td>

</tr>

<%

}

rs.close();

statement.close();

connection.close();

} catch (Exception e) {

e.printStackTrace();

}

%>

</table>

</body>

</html>

**Step4:**

**Create a new Servlet package name** blog **class name** BlogServlet

package blog;

import jakarta.servlet.\*;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.\*;

import java.io.\*;

import java.sql.\*;

*@WebServlet*("/BlogServlet")

public class BlogServlet extends HttpServlet {

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

String action = request.getParameter("action");

try {

Class.*forName*("com.mysql.cj.jdbc.Driver");

Connection connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/BlogDB", "root", "0000");

if ("add".equals(action)) {

String title = request.getParameter("title");

String content = request.getParameter("content");

String sql = "INSERT INTO blog (title, content) VALUES (?, ?)";

PreparedStatement statement = connection.prepareStatement(sql);

statement.setString(1, title);

statement.setString(2, content);

statement.executeUpdate();

statement.close();

} else if ("edit".equals(action)) {

int id = Integer.*parseInt*(request.getParameter("id"));

String title = request.getParameter("title");

String content = request.getParameter("content");

String sql = "UPDATE blog SET title = ?, content = ? WHERE id = ?";

PreparedStatement statement = connection.prepareStatement(sql);

statement.setString(1, title);

statement.setString(2, content);

statement.setInt(3, id);

statement.executeUpdate();

statement.close();

}

connection.close();

} catch (Exception e) {

e.printStackTrace();

}

response.sendRedirect("home.jsp");

}

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

String action = request.getParameter("action");

if ("delete".equals(action)) {

try {

int id = Integer.*parseInt*(request.getParameter("id"));

Class.*forName*("com.mysql.cj.jdbc.Driver");

Connection connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/BlogDB", "root", "0000");

String sql = "DELETE FROM blog WHERE id = ?";

PreparedStatement statement = connection.prepareStatement(sql);

statement.setInt(1, id);

statement.executeUpdate();

statement.close();

connection.close();

} catch (Exception e) {

e.printStackTrace();

}

}

response.sendRedirect("home.jsp");

}

}

**Step5:**

**Create database and table**

CREATE DATABASE IF NOT EXISTS BlogDB;

USE BlogDB;

CREATE TABLE IF NOT EXISTS blog (

id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(255) NOT NULL,

content TEXT NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

**Step6: Run addBlog.jsp on server**