***Question 8. Build a feedback system using JSP, Servlet, and JDBC.***

* + ***Store feedback in a database.***
  + ***JSP for form display and viewing feedback.***
  + ***Servlet for data handling.***

**Step1:**

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

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Feedback Form</title>

</head>

<body>

<h1>Submit Your Feedback</h1>

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

<label for=*"name"*>Name:</label><br>

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

<label for=*"email"*>Email:</label><br>

<input type=*"email"* id=*"email"* name=*"email"* required><br><br>

<label for=*"message"*>Message:</label><br>

<textarea id=*"message"* name=*"message"* rows=*"5"* required></textarea><br><br>

<button type=*"submit"*>Submit Feedback</button>

</form>

<% String success = request.getParameter("success"); %>

<% if (success != null && success.equals("1")) { %>

<p style="color: *green*;">Feedback submitted successfully!</p>

<% } %>

<% String error = request.getParameter("error"); %>

<% if (error != null && error.equals("1")) { %>

<p style="color: *red*;">Error submitting feedback. Please try again.</p>

<% } %>

<p><a href=*"viewFeedback.jsp"*>View All Feedback</a></p>

</body>

</html>

**Step2:**

**Create a new JSP file** viewFeedback.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>View Feedback</title>

</head>

<body>

<h1>Feedback from Users</h1>

<table border=*"1"*>

<tr>

<th>ID</th>

<th>Name</th>

<th>Email</th>

<th>Message</th>

</tr>

<%

try {

// Database connection

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

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

// Retrieve feedback from database

String sql = "SELECT \* FROM feedback";

Statement statement = connection.createStatement();

ResultSet rs = statement.executeQuery(sql);

while (rs.next()) {

%>

<tr>

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

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

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

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

</tr>

<%

}

} catch (Exception e) {

e.printStackTrace();

%>

<tr>

<td colspan=*"4"*>Error retrieving feedback.</td>

</tr>

<%

}

%>

</table>

<p><a href=*"feedback.jsp"*>Back to Feedback Form</a></p>

</body>

</html>

**Step3:  
Create a new Servlet package name** feedbackServlet **class** **name** FeedbackServlet

package feedbackServlet;

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

*@WebServlet*("/FeedbackServlet")

public class FeedbackServlet extends HttpServlet {

private static final long *serialVersionUID* = 1L;

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

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

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

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

try {

// Database connection

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

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

// Insert feedback into database

String sql = "INSERT INTO feedback (name, email, message) VALUES (?, ?, ?)";

PreparedStatement statement = connection.prepareStatement(sql);

statement.setString(1, name);

statement.setString(2, email);

statement.setString(3, message);

statement.executeUpdate();

// Redirect to feedback form with a success message

response.sendRedirect("feedback.jsp?success=1");

} catch (Exception e) {

e.printStackTrace();

response.sendRedirect("feedback.jsp?error=1");

}

}

}

**Step4:**

**Create database and table**CREATE DATABASE FeedbackDB;

USE FeedbackDB;

CREATE TABLE feedback (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100),

email VARCHAR(100),

message TEXT

);

**Step5:Run feedback.jsp**