**CODE :-**

**BlogDao.java**

package com.blogapp.dao;

import com.blogapp.model.Blog;

import com.blogapp.util.DBConnection;

import java.sql.\*;

import java.util.ArrayList;

import java.util.List;

public class BlogDAO {

public void addBlog(Blog blog) throws SQLException {

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

try (Connection conn = DBConnection.getConnection();

PreparedStatement ps = conn.prepareStatement(sql)) {

ps.setString(1, blog.getTitle());

ps.setString(2, blog.getContent());

ps.setString(3, blog.getUsername());

ps.executeUpdate();

}

}

public List<Blog> getAllBlogs() throws SQLException {

List<Blog> blogs = new ArrayList<>();

String sql = "SELECT id, title, content, username, published\_at FROM blogs ORDER BY published\_at DESC";

try (Connection conn = DBConnection.getConnection();

PreparedStatement ps = conn.prepareStatement(sql);

ResultSet rs = ps.executeQuery()) {

while (rs.next()) {

Blog blog = new Blog(

rs.getString("title"),

rs.getString("content"),

rs.getString("username")

);

blogs.add(blog);

}

}

return blogs;

}

}

**Blog**

package com.blogapp.model;

import java.sql.Timestamp;

public class Blog {

private int id;

private String title;

private String content;

private String username;

private Timestamp publishedAt;

public Blog(String title, String content, String username) {

this.id = id;

this.title = title;

this.content = content;

this.username = username;

this.publishedAt = publishedAt;

}

public int getId() {

return id;

}

public String getTitle() {

return title;

}

public String getContent() {

return content;

}

public String getUsername() {

return username;

}

public Timestamp getPublishedAt() {

return publishedAt;

}

}

**AddBlogServlet.java**

package com.blogapp.servlet;

import com.blogapp.dao.BlogDAO;

import com.blogapp.model.Blog;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet("/add-blog")

public class AddBlogServlet extends HttpServlet {

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

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

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

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

Blog blog = new Blog(title, content, username);

BlogDAO blogDAO = new BlogDAO();

try {

blogDAO.addBlog(blog);

response.sendRedirect("view-blogs.jsp");

} catch (SQLException e) {

throw new ServletException("Error adding blog", e);

}

}

}

**BlogServlet.java**

package com.blogapp.servlet;

import com.blogapp.dao.BlogDAO;

import com.blogapp.model.Blog;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

@WebServlet("/blogs")

public class BlogServlet extends HttpServlet {

private BlogDAO blogDAO;

@Override

public void init() {

blogDAO = new BlogDAO();

}

@Override

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

try {

List<Blog> blogs = blogDAO.getAllBlogs();

request.setAttribute("blogs", blogs);

request.getRequestDispatcher("view-blogs.jsp").forward(request, response);

} catch (SQLException e) {

throw new ServletException("Error fetching blogs", e);

}

}

}

**ViewBlogServlet.java**

package com.blogapp.servlet;

import com.blogapp.dao.BlogDAO;

import com.blogapp.model.Blog;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

@WebServlet("/view-blogs")

public class ViewBlogsServlet extends HttpServlet {

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

BlogDAO blogDAO = new BlogDAO();

List<Blog> blogs = null;

try {

blogs = blogDAO.getAllBlogs();

} catch (SQLException e) {

throw new RuntimeException(e);

}

request.setAttribute("blogs", blogs);

request.getRequestDispatcher("view-blogs.jsp").forward(request, response);

}

}

**DBConnection.java**

package com.blogapp.util;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection {

private static final String URL = "jdbc:mysql://localhost:3306/aj\_practical";

private static final String USER = "root"; // Change if needed

private static final String PASSWORD = ""; // Change if needed

static {

try {

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

} catch (ClassNotFoundException e) {

throw new RuntimeException("MySQL Driver not found!", e);

}

}

public static Connection getConnection() throws SQLException {

return DriverManager.getConnection(URL, USER, PASSWORD);

}

}

**Add-blog.jsp**

<form action="add-blog" method="post">

<label>Title:</label>

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

<label>Content:</label>

<textarea name="content" required></textarea>

<label>Username:</label>

<input type="text" name="username" required>

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

</form>

<% if (request.getAttribute("error") != null) { %>

<p style="color: red;"><%= request.getAttribute("error") %></p>

<% } %>

**View-blog.jsp**

<%@ page import="java.util.List" %>

<%@ page import="com.blogapp.model.Blog" %>

<%

List<Blog> blogs = (List<Blog>) request.getAttribute("blogs");

Integer loggedInUserId = (Integer) request.getAttribute("loggedInUserId");

%>

<table border="1">

<tr>

<th>Title</th>

<th>Content</th>

<th>Actions</th>

</tr>

<% for (Blog blog : blogs) { %>

<tr>

<td><%= blog.getTitle() %></td>

<td><%= blog.getContent() %></td>

<td>

<% if (loggedInUserId != null && loggedInUserId.equals(blog.getUserId())) { %>

<a href="edit-blog.jsp?id=<%= blog.getId() %>">Edit</a>

<% } %>

</td>

</tr>

<% } %>

</table>

**OUTPUT :**





