Exp 9

**Database Setup (Common for All):**

CREATE DATABASE students;

USE students;

CREATE TABLE student (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

branch VARCHAR(100) NOT NULL

);

1. Phase 1: PHP with MySQL

<?php

$host = "localhost";

$user = "root";

$pass = "";

$db = "students";

$conn = new mysqli($host, $user, $pass, $db);

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$name = $\_POST['name'];

$branch = $\_POST['branch'];

$conn->query("INSERT INTO student (name, branch) VALUES ('$name', '$branch')");

}

$result = $conn->query("SELECT \* FROM student");

?>

<!DOCTYPE html>

<html>

<head><title>PHP Student App</title></head>

<body>

<h2>Add Student</h2>

<form method="post">

Name: <input type="text" name="name" required><br>

Branch: <input type="text" name="branch" required><br>

<input type="submit" value="Save">

</form>

<h3>Student List</h3>

<ul>

<?php while ($row = $result->fetch\_assoc()): ?>

<li><?= $row['name'] ?> - <?= $row['branch'] ?></li>

<?php endwhile; ?>

</ul>

</body>

</html>

1. Phase 2: Java Servlets + MySQL

**HTML Doc:**

<!DOCTYPE html>

<html>

<head><title>Servlet Student Form</title></head>

<body>

<h2>Add Student (Servlet)</h2>

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

Name: <input type="text" name="name"><br>

Branch: <input type="text" name="branch"><br>

<input type="submit" value="Add Student">

</form>

</body>

</html>

**Servlet: StudentServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.sql.\*;

public class StudentServlet extends HttpServlet {

public void doPost(HttpServletRequest req, HttpServletResponse res) throws IOException, ServletException {

res.setContentType("text/html");

PrintWriter out = res.getWriter();

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

String branch = req.getParameter("branch");

try {

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

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/students", "root", "");

PreparedStatement pst = con.prepareStatement("INSERT INTO student (name, branch) VALUES (?, ?)");

pst.setString(1, name);

pst.setString(2, branch);

pst.executeUpdate();

out.println("<h3>Student Added!</h3><a href='form.html'>Back</a>");

} catch (Exception e) {

out.println("<p>Error: " + e.getMessage() + "</p>");

}

}

}

1. Phase 3: JSP + MySQL

**File: student.jsp**

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

**<%**

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

**String branch = request.getParameter("branch");**

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

**Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/students", "root", "");**

**if(name != null && branch != null) {**

**PreparedStatement pst = con.prepareStatement("INSERT INTO student (name, branch) VALUES (?, ?)");**

**pst.setString(1, name);**

**pst.setString(2, branch);**

**pst.executeUpdate();**

**}**

**ResultSet rs = con.createStatement().executeQuery("SELECT \* FROM student");**

**%>**

**<!DOCTYPE html>**

**<html>**

**<head><title>JSP Student App</title></head>**

**<body>**

**<h2>Add Student (JSP)</h2>**

**<form method="get">**

**Name: <input type="text" name="name"><br>**

**Branch: <input type="text" name="branch"><br>**

**<input type="submit" value="Save">**

**</form>**

**<h3>Student List</h3>**

**<ul>**

**<% while(rs.next()) { %>**

**<li><%= rs.getString("name") %> - <%= rs.getString("branch") %></li>**

**<% } %>**

**</ul>**

**</body>**

**</html>**