Task:	Deploy J	Java	Website on	Tomcat	Server	and]	Data	Entered	By	User
On W	ehsite sha	hlun	he saved in	Datahas	S.P.					

•	For this task we need to install java, mysql on our machine also we need tomcat for
	hosting websites.

1) Installing Java , MySQL

sudo apt install default-jdk sudo apt install mysql-server

2) Create two jsp files

- i) index.jsp and write the code in html
- ii) saveData.jsp and write logic for saving user entered data into table

For index.jsp write following code:

sudo vi index.jsp

```
%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Welcome to My-World</title>
<script>
function clearFields() {
 document.getElementById("name").value = ""; // Clear the Name input field
document.getElementById("email").value = ""; // Clear the Email input field
document.getElementById("mobile").value = ""; // Clear the mobile input field
</script>
</head>
<body>
    <h1>Registration Form</h1>
    <form method="post" action="saveData.jsp">
                       <label for="name">Name:</label>
                       <input type="text" id="name" name="name" placeholder="Sumit B. Matte" required>
          <label for="email">Email:</label>
                       <input type="email" id="email" name="email" placeholder="Email@" required><br>
```

```
>
      <label for="mobile">Mobile Number:</label>
                 >
      <input type="tel" id="mobile" name="mobile" pattern="[0-9]{10}"</pre>
                 placeholder="mobile number" required><br>
                 >
      <input type="submit" value="Save">
                <button type="button" onclick="clearFields()">Clear</button>
                 </form>
</body>
```

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<%
    String name = request.getParameter("name");
    String email = request.getParameter("email");
    String mobileno = request.getParameter("mobile");
    Connection conn = null;
    PreparedStatement stmt = null;
        // Update the below credentials with your MySQL server information
        String dbuRL = "jdbc:mysql://localhost:3306/sample db";
        String dbUser = "sumit";
        String dbPassword = "sumit123";
        Class.forName("com.mysql.cj.jdbc.Driver");
        conn = DriverManager.getConnection(dbURL, dbUser, dbPassword);
        String insertQuery = "INSERT INTO users (name, email, mobileno) VALUES (?, ?,
        stmt = conn.prepareStatement(insertQuery);
        stmt.setString(1, name);
        stmt.setString(2, email);
        stmt.setString(3, mobileno);
        stmt.executeUpdate();
        out.println("<h2>Data saved successfully!</h2>");
    } catch (Exception e) {
        out.println("<h2>Error saving data: " + e.getMessage() + "</h2>");
        e.printStackTrace();
    } finally {
        if (stmt != null) {
            stmt.close();
        if (conn != null) {
            conn.close();
%>
```

3) Now we need to create one directory for our website

sudo mkdir -p /mnt/java-project/WEB-INF/lib

Move index.jsp and saveData.jsp into /mnt/java-project

Also we need to download <u>mysql-connector-j-8.0.33-javadoc.jar</u> file to establish Connection between our application and MySQL database.

It is a Java Database Connectivity (JDBC) and it allows Java application to interact with relational databases.

Move <u>mysgl-connector-j-8.0.33-javadoc.jar</u> into WEB-INF/lib directory.

4) Now make war file

sudo jar -cvf java-project.war java-project

```
sumit@sumit-ubuntu:/opt$ sudo jar -cvf java-project.war java-project
added manifest
adding: java-project/(in = 0) (out= 0)(stored 0%)
adding: java-project/saveData.jsp(in = 1299) (out= 612)(deflated 52%)
adding: java-project/index.jsp(in = 1405) (out= 549)(deflated 60%)
sumit@sumit-ubuntu:/opt$ ls
```

5) Create my sql database and login it into after create one database "sample_db" and also create table "users".

```
mysql> CREATE DATABASE sample_db;
Query OK, 1 row affected (0.09 sec)

mysql> USE sample_db;
Database changed
mysql> CREATE TABLE users(Id INT, Name VARCHAR(50), Email VARCHAR(50), MObileNo INT);
Query OK, 0 rows affected (0.09 sec)

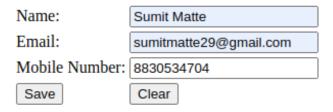
mysql>
```

6) Now move/copy java-project.war file into /opt/tomcat/webapps directory and restart the tomcat.

We will get following output:



Registration Form



← → C ⚠ Not secure | 35.154.93.214:8080/java-project/java-project/saveData.jsp

Data saved successfully!