

# **PRACTICAL 6 (E & F) – JSP APPLICATIONS + GENERAL SETUP GUIDE**

## **GENERAL SETUP FOR ALL PRACTICAL 6 (JSP) PROGRAMS**

This section explains the complete setup required to execute all JSP practicals (6A to 6F) using NetBeans IDE 7 and Apache Tomcat Server.

### **REQUIRED SOFTWARE**

- NetBeans IDE 7.x
- JDK 7 or JDK 8
- Apache Tomcat Server 7.x
- MySQL Server (for database-based JSP programs)
- MySQL Connector/J (JDBC Driver)

### **STEP 1: INSTALL AND CONFIGURE JDK**

1. Install JDK 7 or JDK 8 on the system
2. Set JAVA\_HOME environment variable
3. Verify installation using command: `java -version`

### **STEP 2: CONFIGURE APACHE TOMCAT IN NETBEANS**

1. Open NetBeans IDE 7
2. Click Tools → Servers → Add Server
3. Select Apache Tomcat or TomEE
4. Browse Tomcat installation directory
5. Set username and password
6. Click Finish

### **STEP 3: CREATE WEB APPLICATION PROJECT**

1. File → New Project
2. Java Web → Web Application
3. Enter project name
4. Select Apache Tomcat Server
5. Finish

### **STEP 4: ADD MYSQL CONNECTOR JAR**

1. Right-click project → Properties
2. Libraries → Add JAR/Folder
3. Select mysql-connector.jar

4. Click OK

# PRACTICAL 6(E): APPLICATION FORM FOR CHANGE OF STUDY CENTER

## AIM

To design a JSP-based application form for students requesting a change of study center.

## THEORY

JSP is used to create dynamic forms where user input is collected and displayed or processed. In this practical, a study center change request form is developed.

## SOURCE CODE – studycenter.jsp

```
<html>
<body>
<h2>Application for Change of Study Center</h2>
<form action="submit.jsp" method="post">
Student Name: <input type="text" name="name"><br><br>
Enrollment No: <input type="text" name="enroll"><br><br>
Current Study Center: <input type="text" name="current"><br><br>
Requested Study Center: <input type="text" name="requested"><br><br>
Reason:<br>
<textarea name="reason"></textarea><br><br>
<input type="submit" value="Submit Application">
</form>
</body>
</html>
```

## SOURCE CODE – submit.jsp

```
<html>
<body>
<h2>Application Submitted</h2>
<%
String name = request.getParameter("name");
String enroll = request.getParameter("enroll");
String current = request.getParameter("current");
String requested = request.getParameter("requested");
String reason = request.getParameter("reason");
%>

Name: <%= name %><br>
Enrollment No: <%= enroll %><br>
Current Center: <%= current %><br>
Requested Center: <%= requested %><br>
Reason: <%= reason %><br>
</body>
</html>
```

# PRACTICAL 6(F): JSP TAGS – DECLARATION, SCRIPTLET, DIRECTIVE, EXPRESSION, HEADER & FOOTER

## AIM

To demonstrate the use of JSP declaration, scriptlet, directive, expression, and inclusion of header and footer files.

## THEORY

JSP provides various tags to embed Java code and reusable components within HTML pages. This practical demonstrates all major JSP tags and page modularization.

### SOURCE CODE – header.jsp

```
<html>
<body>
<h2>Welcome to JSP Demonstration</h2>
<hr>
```

### SOURCE CODE – footer.jsp

```
<hr>
<p>© 2026 MCA JSP Practical</p>
</body>
</html>
```

### SOURCE CODE – demo.jsp

```
<%@ page language="java" %>
<%@ include file="header.jsp" %>

<%! int count = 10; %>

<%
int square = count * count;
%>

Value: <%= count %><br>
Square: <%= square %>

<%@ include file="footer.jsp" %>
```

## RESULT

Thus, JSP Application Form and JSP Tags were successfully demonstrated along with complete environment setup for all JSP practicals.