

# Java Full Stack Lab Manual - JDBC Experiment

## Aim

To demonstrate servlet collaboration using the `<jsp:include>` action tag which includes another JSP's response dynamically at runtime.

## Technologies Used

Java, JSP, Servlet API, Apache Tomcat, HTML

## Directory Structure

```
IncludeDemo/  
|  
+- index.jsp  
+- included.jsp  
+- WEB-INF/  
    +- web.xml
```

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## index.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<html>
<head><title>Include Demo</title></head>
<body>
    <h2>This is the Main JSP Page</h2>

    <jsp:include page="included.jsp" />

    <p>Back in the main JSP after including.</p>
</body>
</html>
```

## included.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" %>
<p style="color:green;">This content is included from included.jsp using <jsp:include></p>
```

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## web.xml

```
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
    http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
  version="3.1">

  <welcome-file-list>
    <welcome-file>index.jsp</welcome-file>
  </welcome-file-list>

</web-app>
```

## How It Works

- When index.jsp is accessed, it is rendered first.
- The <jsp:include> action includes the output of included.jsp at that location.
- The main JSP continues rendering after the include.

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### Expected Output

This is the Main JSP Page

This content is included from included.jsp using <jsp:include>

Back in the main JSP after including.

### Result

Successfully demonstrated servlet collaboration using <jsp:include> to dynamically include another JSP file during request processing.