

# Creating a Simple JSP Page

## Step 1: Creating a dynamic web project

- Open Eclipse
- Go the File menu. Choose New->Dynamic Web Project
- Enter the project name as SimpleJSP. Click on Next
- Enter nothing in the next screen and click on Next
- Check the checkbox Generate web.xml deployment descriptor and click on Finish
- This will create the project files in the Project Explorer

## Step 2: Creating a JSP file index.jsp

- In the Project Explorer, expand the project SimpleJSP
- Expand WebContent. Right click on WebContent. Choose New->JSP File
- Enter the filename as index.jsp and click on Finish
- Enter the following code:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Simple JSP</title>
</head>
<body>
<%
    out.println("<h2>My first JSP page.</h2>");
%>
```

</body>  
</html>

- Click on the Save icon

### Step 3: Checking for servlet-api.jar

- Before building the project, we need to add servlet-api.jar to the project
- Servlet-api.jar file is already present in your practice lab. (Refer FSD: Lab Guide - Phase 2)
- To add it to the project, follow the below mentioned steps:
  - In the Project Explorer, right click on SimpleJSP and choose Properties
  - Select Java Build Path from the options on the left
  - Click on Libraries tab on the right
  - Under ClassPath, expand the node that says Apache Tomcat
  - If there is an existing entry for servlet-api.jar, then click on Cancel and exit the window
  - If it is not there, then click on Classpath entry and click on Add External JARs button on the right
  - From the file list, select the servlet-api.jar file and click on Ok
  - Click on Apply and Close

#### Step 4: Building the project

- From the Project menu at the top, click on Build
- If any compile errors are shown, fix them as required

#### Step 5: Publishing and starting the project

- If you do not see the Servers tab near the bottom of the IDE, go to Window menu and click on Show View->Servers
- Right click on the Server entry and choose Add and Remove
- Click the Add button to move SimpleJSP from the Available list to the Configured list
- Click on Finish
- Right click on the Server entry and click on Publish
- Right click on the Server entry and click on Start
- This will start the server

#### Step 6: Running the project

- To run the project, open a web browser and type:  
<http://localhost:8080/SimpleJSP>

#### Step 7: Pushing the code to your GitHub repositories

- Open your command prompt and navigate to the folder where you have created your files.

`cd <folder path>`

- Initialize your repository using the following command:

```
git init
```

- Add all the files to your git repository using the following command:

```
git add .
```

- Commit the changes using the following command:

```
git commit . -m "Changes have been committed."
```

- Push the files to the folder you initially created using the following command:

```
git push -u origin master
```

