Difference between GET and POST

Step 1: Creating a dynamic web project

- Open Eclipse
- Go the File menu. Choose New->Dynamic Web Project
- Enter the project name as ServletGetPost. 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 an HTML page

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

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>GET vs POST Demo</title>
</head>
<body>

<a href="gethandler?name=John+Doe&address=145+Lake+Avenue">Do a Servlet GET</a><<br/>
<form name=frm method=post action="posthandler">
Name <input name="name" id="name" maxlenght=50><br>
Address <input name="address" id="address" maxlength=100><br>
```

```
<br/>
```

Click on the Save icon

Step 3: Creating a servlet GetHandler.java

- In the Project Explorer, expand ServletGetPost->Java Resources
- Right click src and choose New->Servlet
- In Class Name, enter GetHandler and click on Finish
- Enter the following code:

```
import java.io.*;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**

* Servlet implementation class GetHandler

*/
@WebServlet("/GetHandler")
public class GetHandler extends HttpServlet {
    private static final long serialVersionUID = 1L;
    /**
```

```
* @see HttpServlet#HttpServlet()
  public GetHandler() {
    super();
    // TODO Auto-generated constructor stub
  }
   /**
    * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
    */
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
         PrintWriter out = response.getWriter();
          out.println("<html><body>");
          String name = request.getParameter("name");
          String address = request.getParameter("address");
          out.println("Name=" + name + "<br>Address=" + address);
          out.println("</body></html>");
    }
    /**
    * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
    */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}
```

Step 4: Creating a servlet PostHandler.java

- In the Project Explorer, expand ServletGetPost->Java Resources
- Right click src and choose New->Servlet
- In Class Name, enter PostHandler and click on Finish
- Enter the following code:

```
import java.io.*;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
* Servlet implementation class PostHandler
*/
@WebServlet("/PostHandler")
public class PostHandler extends HttpServlet {
    private static final long serialVersionUID = 1L;
* @see HttpServlet#HttpServlet()
  public PostHandler() {
    super();
    // TODO Auto-generated constructor stub
  }
     * @see HttpServlet#doGet(HttpServletRequest request,
```

```
HttpServletResponse response)
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
    }
    /**
    * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
    */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
         PrintWriter out = response.getWriter();
          out.println("<html><body>");
          String name = request.getParameter("name");
          String address = request.getParameter("address");
          out.println("Name=" + name + "<br>Address=" + address);
          out.println("</body></html>");
    }
}
```

Step 5: Configuring web.xml

- In the Project Explorer, expand ServletGetPost->WebContent->WEB-INF
- Double click web.xml to open it in the editor

Enter the following script:

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app 4 0.xsd" id="WebApp ID"
version="4.0">
 <display-name>LoginLogout</display-name>
 <welcome-file-list>
  <welcome-file>index.html</welcome-file>
  <welcome-file>index.htm</welcome-file>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>default.html</welcome-file>
  <welcome-file>default.htm</welcome-file>
  <welcome-file>default.jsp</welcome-file>
 </welcome-file-list>
 <servlet>
  <servlet-name>GetHandler</servlet-name>
  <servlet-class>GetHandler</servlet-class>
 </servlet>
 <servlet>
  <servlet-name>PostHandler</servlet-name>
  <servlet-class>PostHandler</servlet-class>
 </servlet>
 <servlet-mapping>
  <servlet-name>GetHandler</servlet-name>
  <url-pattern>/gethandler</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>PostHandler</servlet-name>
  <url-pattern>/posthandler</url-pattern>
 </servlet-mapping>
</web-app>
```

Step 6: 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 ServletGetPost 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 servlet-api.jar file and click Ok
 - Click on Apply and Close

Step 7: Building the project

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

Step 8: Publishing and starting the project

• If you do not see the Servers tab near the bottom of the IDE, go to

the Window menu and click Show View->Servers

- Right click on the Server entry and choose Add and Remove
- Click the Add button to move ServletGetPost from the Available list to the Configured List
- Click 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 9: Running the project

 To run the project, open a web browser and type: http://localhost:8080/ServletGetPost

Step 10: 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