# Session Tracking Using HTTP Session

### Step 1: Creating a dynamic web project

- Open Eclipse
- Go the File menu. Choose New->Dynamic Web Project
- Enter the project name as HTTPSessionDemo. 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 HTTPSessionDemo
- Expand WebContent. Right click on WebContent. Choose New->HTML File
- Enter the filename as index.html and click on Finish
- Enter the following code:

#### </html>

Click on the Save icon

### Step 3: Creating a LoginServlet servlet

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

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.annotation.*;
import javax.servlet.http.*;

/**
 * Servlet implementation class LoginServlet
 */
@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    /**
 * @see HttpServlet#HttpServlet()
 */
    public LoginServlet() {
        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
          String userId = request.getParameter("userid");
          HttpSession session=request.getSession();
       session.setAttribute("userid", userId);
       response.sendRedirect("dashboard");
    }
     /**
     * @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 Dashboard servlet

- In the Project Explorer, expand HTTPSessionDemo->Java Resources
- Right click on src and choose New->Servlet
- In Class Name, enter Dashboard and click on Finish

• Enter the following code: import java.io.\*; import javax.servlet.\*; import javax.servlet.annotation.\*; import javax.servlet.http.\*; /\*\* \* Servlet implementation class Dashboard \*/ @WebServlet("/Dashboard") public class Dashboard extends HttpServlet { private static final long serialVersionUID = 1L; \* @see HttpServlet#HttpServlet() public Dashboard() { 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>");

HttpSession session=request.getSession(false);

String userId = null;

```
if (session.getAttribute("userid") != null)
          userId =(String)session.getAttribute("userid");
       if (userId == null ) {
          out.println("No UserId was found in session.<br>");
       } else {
          out.println("UserId obtained from session:" + userId +
"<br>");
       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 5: Configuring web.xml

- In the Project Explorer, expand HTTPSessionDemo-> WebContent->WEB-INF
- Double click on 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"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee</pre>
```

```
http://xmlns.jcp.org/xml/ns/javaee/web-app 4 0.xsd"
id="WebApp ID" version="4.0">
 <display-name>HTTPSessionDemo</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>LoginServlet</servlet-name>
  <servlet-class>LoginServlet</servlet-class>
 </servlet>
 <servlet>
  <servlet-name>Dashboard</servlet-name>
  <servlet-class>Dashboard/servlet-class>
 </servlet>
 <servlet-mapping>
  <servlet-name>Dashboard</servlet-name>
  <url-pattern>/dashboard</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>LoginServlet</servlet-name>
  <url-pattern>/login</url-pattern>
 </servlet-mapping>
</web-app>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>LoginServlet</servlet-name>
  <url-pattern>/login</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 the HTTPSessionDemo 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 the 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 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 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 FormFieldsTracking 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 9: Running the project

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

# 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:

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

git add.

git init

• 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