Session Login and Logout

Step 1: Creating a dynamic web project

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

Click on the Save icon

Step 3: Creating a LoginServlet servlet

- In the Project Explorer, expand LoginLogout->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 LoginLogout->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 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;
import javax.servlet.http.HttpSession;
* 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("<a href='logout'>Logout of session</a>
<br/>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: Creating a Logout servlet

- In the Project Explorer, expand LoginLogout->Java Resources
- Right click on src and choose New->Servlet
- In Class Name, enter Logout 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;
import javax.servlet.http.HttpSession;
/**
* Servlet implementation class Logout
@WebServlet("/Logout")
public class Logout extends HttpServlet {
    private static final long serialVersionUID = 1L;
* @see HttpServlet#HttpServlet()
  public Logout() {
    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
          HttpSession session=request.getSession();
          session.invalidate();
          PrintWriter out = response.getWriter();
          out.println("<html><body>");
       out.println("Logged out of session.<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 6: Configuring web.xml

- In the Project Explorer, expand LoginLogut->WebContent-> WEB-INF
- · Double click on web.xml to open it in the editor
- Enter the following script:

```
<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>
  <servlet-name>Logout</servlet-name>
  <servlet-class>Logout</servlet-class>
 </servlet>
 <servlet-mapping>
  <servlet-name>Logout</servlet-name>
  <url-pattern>/logout</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>LoginServlet</servlet-name>
  <url-pattern>/login</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>Dashboard/servlet-name>
  <url-pattern>/dashboard</url-pattern>
 </servlet-mapping>
</web-app>
```

Step 7: 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 LoginLogout 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 the 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 8: Building the project

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

Step 9: 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 c | lick on l | Publish |
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- · Right click on the Server entry and click on Start
- This will start the server

Step 10: Running the project

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

Step 11: 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