

# **Session Tracking Using URL Rewrite**

## Step 1: Creating a dynamic web project

- Open Eclipse
- Go the File menu. Choose New->Dynamic Web Project
- Enter the project name as URLRewriteDemo. 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 URLRewriteDemo
- 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>URL Rewriting Demo</title>
</head>
<body>
    <a href="login?userid=admin">Dashboard with URL Rewriting
based login</a><br>
    <a href="dashboard">Dashboard without URL Rewriting based
login</a>
</body>
```

</html>

- Click on the Save icon

### Step 3: Creating a LoginServlet servlet

- In the Project Explorer, expand URLRewriteDemo->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");
            response.sendRedirect("dashboard?userid=" + userId);

        }

        /**
        * @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 URLRewriteDemo->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>");

        String userId = request.getParameter("userid");
        if (userId == null ) {
            out.println("No UserId was found in the URL.<br>");
        } else {
            out.println("UserId obtained from URL Rewriting:" + 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 URLRewriteDemo->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
http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd
id="WebApp_ID" version="4.0">
    <display-name>URLRewriteDemo</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>

```

#### 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 URLRewriteDemo 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 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 URLRewriteDemo 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/URLRewriteDemo>

#### 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
```