WEB ARCHITECTURE LAB 02 TASKS

Prepared by:
Mohammad Anas Jawad
Lecturer, IUT CSE



Department of Computer Science and Engineering
Islamic University of Technology
October 28, 2020

Note: Plagiarism will be severely penalized.

Task 1

• Create a web application project under Intellij/Eclipse. Your web application should have the following directory structure:

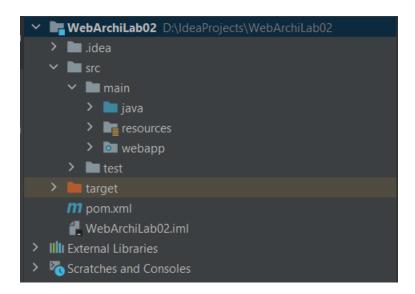


Figure 1: Web Application Directory

• Create a file named index.html under the webapp directory and fill it with the following code:

```
1 <html>
2 <body>
3 <head>
4 <title> A simple Innput form and Sevlet </title>
5 </head>
6 Please enter you name below:
7 <form name="myform" method="get" action="myServlet">
8 <input type="text" name="user"/>
9 <input type="submit" name="submit" value="submit"/>
10 </form>
11 </body></html>
```

• Create a file named myServlet.java under the java directory and fill it with the following code:

```
import javax.servlet.*;
import javax.servlet.http.*;
3 import java.io.*;
4 public class myServlet extends HttpServlet {
00verride
public void doGet(HttpServletRequest request, HttpServletResponse
     response)
7 throws ServletException, IOException {
8 String userName = request.getParameter("user");
9 response.setContentType("text/html");
PrintWriter out = response.getWriter();
out.println("<HTML>");
out.println("<HEAD>");
out.println("<TITLE>Servlet Response</TITLE>");
out.println("</HEAD>");
out.println("<BODY>");
out.println("Hello Mr. " + userName);
17 }
18 }
```

• Edit the web.xml file under webapp/WEB-INF directory and fill it with the following:

• Run the project and deploy it in Tomcat or any other container of your preference.

Task 2

In the same project, do the following:

Takes two numbers as input and prints a random number between those two numbers.

Task 3

• The getSession method of the javax.servlet.http.HttpServletRequest interface has two overloads. They are as follows:

```
HttpSession getSession()
HttpSession getSession(boolean create)
```

The first overload returns the current session associated with this request, or if the request does not have a session identifier, it creates a new one.

- To create a session the code is: HttpSession session = request.getSession(true);
- The setAttribute method adds a name/attribute pair to the HttpSession object. The code is:

```
public void setAttribute(String name, Object attribute) throws
IllegalStateException
```

• The getAttribute method retrieves an attribute from the HttpSession object. The code is:

```
public Object getAttribute(String name) throws
IllegalStateException
```

• Write a servlet which will produce the following output with the help of HttpSession class.

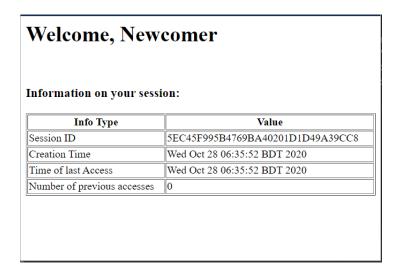


Figure 2: Logged in for the first time

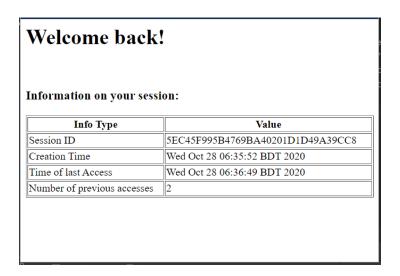


Figure 3: Accessed the page for the 3rd time without logging out