Lab 8: Implementation of Session Management using Hidden Field.

HTML Source Code:-

login.html:-

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
<form action='hidden1' method=post>
<label>NAME:</label>
<input type=text name=n1><br>
<label>ROLL No.:</label>
<input type=text name=r1><br>
<input type=submit name=sub value=SUBMIT>
</form>
</body>
</html>
```

Servlet Source Code:-

Hiddenfield.java:-

```java
import java.io.IOException;
import java.io.*;
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 HiddenField
 */
@WebServlet("/HiddenField")
public class HiddenField extends HttpServlet {
        /**
         *
```

```java
    */
    private static final long serialVersionUID = 1L;

        protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {

            try{

            response.setContentType("text/html");
            PrintWriter out = response.getWriter();

            //getting name and roll from previous page
            String name=request.getParameter("n1");
            String roll=request.getParameter("r1");
            out.println("Welcome "+name);

            //hidden field implementation
            out.println("<form action='hidden2' method=post>");
            out.println("<input type= 'hidden' name='r' value =
'"+roll+"'>");
            out.println("<input type= 'hidden' name=n value =
'"+name+"'>");

            //address
            out.println("<label>ADDRESS:</label>");
            out.println("<input type='text' name='a'>");
            out.print("<br>");

            //submit
            out.print("<input type='submit' value='go'>");
            out.print("</form>");
            out.close();
    }
        catch(Exception e) {
            System.out.println(e);
        }
}

    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}
```

Hidden.java:-

```java
import java.io.IOException;
import java.io.PrintWriter;
```

```java
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 Hidden
 */
@WebServlet("/Hidden")
public class Hidden extends HttpServlet {
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
            try{
                    response.setContentType("text/html");
                    PrintWriter out = response.getWriter();

                    String name1=request.getParameter("n");
                    String roll1=request.getParameter("r");
                    String add1=request.getParameter("a");
                    out.println(" Welcome "+name1);
                    out.print("<br>");
                    out.println(" This is your roll no: "+roll1);
                    out.print("<br>");
                    out.println("this is your home
Address:"+add1);
                    out.close();
            }
            catch(Exception e)
            {
                    System.out.println(e);
            }
    }


    /**
     * @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);
    }
}
```

XML Source Code:-

```xml
<?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>LAB_8</display-name>
<welcome-file-list>
<welcome-file>index.html</welcome-file>
<welcome-file>index.jsp</welcome-file>
<welcome-file>index.htm</welcome-file>
<welcome-file>default.html</welcome-file>
<welcome-file>default.jsp</welcome-file>
<welcome-file>default.htm</welcome-file>
</welcome-file-list>

<servlet>
<servlet-name>s1</servlet-name>
<servlet-class>HiddenField</servlet-class>
</servlet>

<servlet-mapping>
<servlet-name>s1</servlet-name>
<url-pattern>/hidden1</url-pattern>
</servlet-mapping>


<servlet>
<servlet-name>s2</servlet-name>
<servlet-class>Hidden</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>s2</servlet-name>
<url-pattern>/hidden2</url-pattern>
</servlet-mapping>

</web-app>
```

Lab 8: Implementation of Session Management using Session

HTML Source Code:-

index.html:-

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Servlet Login Example</title>
</head>
<body>
<h1>Login App using HttpSession</h1>
<a href="login.html">Login</a>|
<a href="LogoutServlet">Logout</a>|
<a href="ProfileServlet">Profile</a>
</body>
</html>
```

login.html:-

```html
<form action="LoginServlet" method="post">
Name:<input type="text" name="name"><br>
Password:<input type="password" name="password"><br>
<input type="submit" value="login">
</form>
```

Servlet Source Code:-

LoginServlet.java:-

```java
import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
```

```java
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
public class LoginServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request,
HttpServletResponse response)
                    throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        request.getRequestDispatcher("link.html").include(request,
response);

        String name=request.getParameter("name");
        String password=request.getParameter("password");

        if(password.equals("admin123")){
        out.print("Welcome, "+name);
        HttpSession session=request.getSession();
        session.setAttribute("name",name);
        }
        else{
            out.print("Sorry, username or password error!");
            request.getRequestDispatcher("login.html").include(reque
st, response);
        }
        out.close();
    }
}
```

LogoutServlet.java:-

```java
import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
public class LogoutServlet extends HttpServlet {
        protected void doGet(HttpServletRequest request,
HttpServletResponse response)
                                throws ServletException, IOException
{
            response.setContentType("text/html");
            PrintWriter out=response.getWriter();

            request.getRequestDispatcher("link.html").include(reques
t, response);
```

```java
            HttpSession session=request.getSession();
            session.invalidate();

            out.print("You are successfully logged out!");

            out.close();
    }
}
```

ProfileServlet.java:-

```java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
public class ProfileServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request,
HttpServletResponse response)
                        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        request.getRequestDispatcher("link.html").include(request,
response);

        HttpSession session=request.getSession(false);
        if(session!=null){
        String name=(String)session.getAttribute("name");

        out.print("Hello, "+name+" Welcome to Profile");
        }
        else{
            out.print("Please login first");
            request.getRequestDispatcher("login.html").include(reque
st, response);
        }
        out.close();
    }
}
```

XML Source Code:-

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="WebApp_ID"
version="2.5">
```

```xml
  <servlet>
    <description></description>
    <display-name>LoginServlet</display-name>
    <servlet-name>LoginServlet</servlet-name>
    <servlet-class>LoginServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>LoginServlet</servlet-name>
    <url-pattern>/LoginServlet</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>ProfileServlet</display-name>
    <servlet-name>ProfileServlet</servlet-name>
    <servlet-class>ProfileServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>ProfileServlet</servlet-name>
    <url-pattern>/ProfileServlet</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>LogoutServlet</display-name>
    <servlet-name>LogoutServlet</servlet-name>
    <servlet-class>LogoutServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>LogoutServlet</servlet-name>
    <url-pattern>/LogoutServlet</url-pattern>
  </servlet-mapping>
</web-app>
```