Web Application

So I created a Web Application called "Login Module", which is a simple non-styled, login-logout web app in which user will enter his/her credentials to enter into his/her account.

Features

- User can Login into his/her account by providing his/her login details like username and password.
- After successful login, user can view embedded videos on a separately made Jsp
- User can visit his Github Profile.
- User can visit his Linkedin Profile.

Security

- Without proper username and password, user can not access the account.
- If user, by any means, knows URLs of secured pages of account, He can't enter those pages by just running those Urls on search bar.
- Proper session management has been done so that if you are login in a browser, you can not login on another browser by just copy pasting the links.
- Proper cookies are being managed so that if user once log out from the account, he can not go back by pressing the back button.

Technologies Used

- Java Servlets
- Java Servlet Pages (Jsp)
- HTML 5
- Java Database Connectivity (JDBC)
- MySQL

Softwares Used:

- Eclipse EE
- MySQL Workbench
- Apache Tomcat Server 9.0

Steps

1. First I created three JSP's i.e. login.jsp, welcome.jsp and videos.jsp.

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Eclipse-Workspace - LoginModule/WebContent/login.jsp - Eclipse IDE
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🔁 Project Explorer 🛭 🖰 😘 😽 🖟 🗖 📵 loginjsp 🗵 🗓 Loginjava 🔛 LoginDaojava 🖺 welcomejsp 🚇 videosjsp 🗶 Logoutjava 🖺 aboutjsp
                                        1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2 pageEncoding="ISO-8859-1"%>
> 🔀 demoApp
> 📂 LoginApp

√ № LoginModule

                                        3 <!DOCTYPE html>
  > 🛅 Deployment Descriptor: LoginModule
                                       4⊖<html>
  > A JAX-WS Web Services
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Æ com.login

                                       8 </head>
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        > 🕖 Login.java
         > 🔑 Logout.java
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→ # com.login.dao

                                       11⊜
                                                     <form action="Login" method="post">
                                                        Enter Username : <input type="text" name="uname"><br>
Enter Password : <input type="password" name="pass"><br>
<input type="submit" value="Login">
         > 🗓 LoginDao.java
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  17 </body>
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     > MFTA-INF
    v 🗁 lib
          mysql-connector-java-5.1.41.jar
      about.jsp
      login.jsp
      videos.jsp
      welcome.jsp
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☐ Data Source Explorer ☐ Snippets ☐ Console

                                       > 🖺 Tomcat v9.0 Server at localhost [Started, Synchronized]
```

Login.jsp code:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
            <form action="Login" method="post">
                  Enter Username : <input type="text" name="uname"><br>
                  Enter Password : <input type="password" name="pass"><br>
                  <input type="submit" value="Login">
            </form>
</body>
</html>
```

Welcome.jsp

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√ № LoginModule

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B Java Resources

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                  v # com.login.dao
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        > A Referenced Libraries
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                                                                                                                                    <h1> Welcome ${username} </h1><br>

    build

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                                                                                                                                    Click <a href="https://github.com/ojasviChauhan">here</a> to visit my GitHub Profile.<br/>
Click <a href="https://www.Linkedin.com/in/ojasvi-chauhan-852706173/">here</a> to visit my LinkedIn Profile.
                  v 🍃 lib
                            mysql-connector-java-5.1.41.jar
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                  about.isp
                                                                                                                                     <form action="Logout">
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                  login.jsp
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                   welcome.isp
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INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that
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```

Code:

```
// if
            if(session.getAttribute("username")==null)
user doesn't provide username and just simply types in url..
            // so that he can not login secure pages and redirect to login
page.
                  response.sendRedirect("login.jsp");
      %>
      <h1> Welcome ${username} </h1><br>
      Here is a video on <a href="videos.jsp">Linked Lists</a> from
GeeksforGeeks.<br>
      Click <a href="https://github.com/0jasviChauhan">here</a> to visit my
GitHub Profile.<br>
      Click <a href="https://www.linkedin.com/in/ojasvi-chauhan-
852706173/">here</a> to visit my LinkedIn Profile.
      <form action="Logout">
            <input type="submit" value="Logout">
      </form>
</body>
</html>
```

Videos.jsp

```
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→ 

# com.login

                                         8 </head>
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         > An Logout.iava
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→ # com.login.dao

         > 🛭 LoginDao.java
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                                                response.setHeader("Cache-Control", "no-cache, no-store, must-revalidate");
      ■ Libraries
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                                                     if(session.getAttribute("username")==null)
   > A Referenced Libraries
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                                                          response.sendRedirect("login.jsp");

∨ № WebContent

     > > META-INF
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                                                <iframe width="840" height="472.5" src="https://www.youtube.com/embed/ge8iG7JecR4" frameborder="0" allow="accelerometer; autopl</pre>
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                                      23 </body>
24 </html>
       about.jsp
       login.jsp
       videos.jsp
       welcome.jsp
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                                       INFO: Reloading Context with name [/LoginModule] has started
May 15, 2020 7:01:35 PM org.apache.jasper.servlet.TldScanner scanJars
INFO: At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that
                                       May 15, 2020 7:01:35 PM org.apache.catalina.core.StandardContext reload
                                       INFO: Reloading Context with name [/LoginModule] is completed
```

Code:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
      <%
      response.setHeader("Cache-Control", "no-cache, no-store, must-
revalidate");
            if(session.getAttribute("username")==null)
                  response.sendRedirect("login.jsp");
            }
      %>
      <iframe width="840" height="472.5"</pre>
src="https://www.youtube.com/embed/ge8iG7JecR4" frameborder="0"
allow="accelerometer; autoplay; encrypted-media; gyroscope; picture-in-
picture" allowfullscreen></iframe>
</body>
</html>
```

- In welcome.jsp, I've used *setHeader* method for cookie management in which default key words are being used. This is done to avoid **back button** security issue.
- And in both welcome.jsp and video.jsp, I've used *session.getattribute* method to check whether user has entered username or it is just null. This is done to avoid **session** hijacking.
- For video embedding, I've just copied the embed link generated by YouTube sharing option.

2. Then I created two Servlets i.e. Login.java & Logout.java.

```
Eclipse-Workspace - LoginModule/src/com/login/Login.java - Eclipse IDE
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b Project Explorer 🛭 🖹 🕏 🎖 🤻 👂 🖁 🗀 🕒 login.jsp 🚨 Login.java 🖺 LoginDao.java 🕒 welcome.jsp 🕒 videos.jsp 🚨 Logout.java 🕒 about.jsp
                                       3@import java.io.IOException;
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  🐉 LoginApp

√ № LoginModule

                                     13 @WebServlet("/Login")
                                     14 public class Login extends HttpServlet 🛭
  > 🛅 Deployment Descriptor: LoginModule
  > A JAX-WS Web Services
                                     15
                                             protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
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                                                  String uname = request.getParameter("uname");
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                                                  String pass = request.getParameter("pass");
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        > 🕖 Logout.java

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⊕ com.login.dao

                                                  LoginDao dao = new LoginDao():
        > 

LoginDao.java
     > 🛋 Libraries
                                                  if(dao.check(uname, pass))
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27
                                                      HttpSession session = request.getSession();
session.setAttribute("username", uname);
response.sendRedirect("welcome.jsp");
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∨ № WebContent

     > 🗁 META-INF
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                                                  else
        web.xml
                                                       response.sendRedirect("login.jsp");
      about.jsp
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                                                      response.getWriter().println("Incorrect credentials");
      login.jsp
      videos.jsp
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                                                  }
      welcome.jsp
                                         }
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□ 炒 ○ ∅ □
                                     > 🔓 Tomcat v9.0 Server at localhost [Started, Synchronized]
```

Login.java code:

```
package com.login;
import java.io.IOException;
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;
import com.login.dao.LoginDao;
@WebServlet("/Login")
public class Login extends HttpServlet {
      protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            String uname = request.getParameter("uname");
            String pass = request.getParameter("pass");
            LoginDao dao = new LoginDao(); // creating object of Database
```

```
if(dao.check(uname, pass))
{

    HttpSession session = request.getSession();
    session.setAttribute("username", uname);
    response.sendRedirect("welcome.jsp");

}
else
{
    response.sendRedirect("login.jsp");
    response.getWriter().println("Incorrect credentials");
}
}
```

Logout.java

```
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| *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *** | *
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 > 📂 demoApp
                                                                                                 1 package com.login;
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                                                                                                  3⊕ import java.io.IOException;
      > 🐿 Deployment Descriptor: LoginModule
      A JAX-WS Web Services
                                                                                             11 @WebServlet("/Logout")

√ № Java Resources

                                                                                            12 public class Logout extends HttpServlet {
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                                                                                                                  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
                      > 🔑 Login.java
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                      > 💹 Logout.java
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→ # com.login.dao

                       > 🗓 LoginDao.java
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```

code:

```
package com.login;
import java.io.IOException;
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;

@WebServlet("/Logout")
public class Logout extends HttpServlet {

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

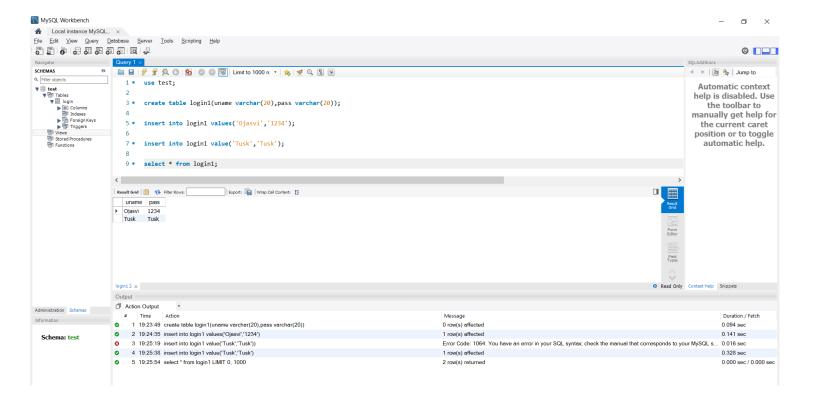
        HttpSession session = request.getSession();
        session.removeAttribute("username");
        session.invalidate();
        response.sendRedirect("login.jsp");

    }
}
```

- In Login servlet, I've used Post method to obtain uname and password.
- After that I've created an object for LoginDao database servlet. And then checked login credentials by using *check* function (described later) made in LoginDao servlet in which *HttpSession* attribute is used.
- If credentials are wrong then I redirect it to login.jsp page and printing incorrect credentials.
- In Logout servlet, I've used Get method.
- And then I've just used *session.removeAttribute* to remove session and then invalidate it by using *session.invalidate* attribute.
- 3. After creating servlets and Jsp, Its time to connect it with database. So firstly I created a table on Sql workbench and named it login.

Commands:

```
> use test;
> create table login(uname varchar(20),pass varchar(20));
> insert into login values('Ojasvi','1234');
> insert into login value('Tusk','Tusk');
> Select * from login.
```



4. Then at last, I created LoginDao.java, which is a separate file for connecting database with servlet.

Code:

```
package com.login.dao;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
public class LoginDao
{
      String sql = "select * from login where uname=? and pass=?";
      String url = "jdbc:mysql://localhost:3306/test";
      String username = "root";
      String password = "root";
      public boolean check(String uname, String pass)
      {
            try {
                  Class.forName("com.mysql.jdbc.Driver");
                  Connection con =
DriverManager.getConnection(url,username,password);
                  PreparedStatement st = con.prepareStatement(sql);
                  st.setString(1, uname);
                  st.setString(2, pass);
                  ResultSet rs = st.executeQuery();
                  if(rs.next())
```

```
{
    return true;
}
} catch (Exception e) {
    e.printStackTrace();
}
return false;
}
```

```
Eclipse-Workspace - LoginModule/src/com/login/dao/LoginDao.java - Eclipse IDE
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陷 Project Explorer 🗵 🗦 🕏 🎖 🥫 🖁 📮 🕒 🗈 loginjsp 🔑 Loginjava 🔟 LoginDao.java 🗵 🖺 welcome.jsp 🚇 videos.jsp 🕡 Logout.java 🛍 about.jsp
                                    1 package com.login.dao;
> 📂 demoApp
> 📂 LoginApp
                                    2 import java.sql.Connection;
                                    3 import java.sql.DriverManager;
4 import java.sql.PreparedStatement;
  > 🛅 Deployment Descriptor: LoginModule
  > A JAX-WS Web Services
                                    5 import java.sql.ResultSet;

→ № Java Resources

                                    7 public class LoginDao

✓ Æ src

                                    8 {

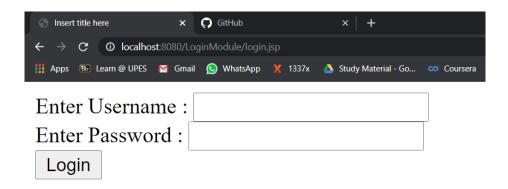
√ 

Æ com.login

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                                          String sql = "select * from login where uname=? and pass=?";
        > 🕖 Login.java
                                          String url = "jdbc:mysql://localhost:3306/test";
                                   10
        > 🕖 Logout.java
                                   11
                                          String username = "root";
      🗸 🖶 com.login.dao
                                          String password = "root";
                                   12
        > 🛭 LoginDao.java
                                   13⊝
                                          public boolean check(String uname, String pass)
    > 🛋 Libraries
  JavaScript Resources
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  > Market Referenced Libraries
                                                   Class.forName("com.mysql.jdbc.Driver");
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                                   17
                                                   Connection con = DriverManager.getConnection(url,username,password);
  PreparedStatement st = con.prepareStatement(sq1);
                                   18
    > 🍃 META-INF
                                                   st.setString(1, uname);
                                   19
    st.setString(2, pass);
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      🗸 🗁 lib
                                   21
                                                   ResultSet rs = st.executeQuery();
          mysgl-connector-java-5.1.41.jar
                                   22
                                                   if(rs.next())
        web.xml
                                   23
      about.jsp
                                   24
                                                       return true;
      login.jsp
                                   25
      videos.isp
                                   26
                                               } catch (Exception e) {
      welcome.jsp
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  Servers
                                   28
                                                   e.printStackTrace();
                                   29
                                   30
                                               return false;
                                   31
                                          }
                                   32
                                  33 }
```

- ➤ Here I used "com.mysql.jdbc.Driver" as a default class name and "jdbc:mysql://localhost:3306/test" as a url path for database.
- > Then I created a boolean check method which will use a defined sql query to check whether info is present in database or not.

5. In the end, I ran the project on tomcat server and it finally displayed on chrome ©



After entering username and password, welcome.jsp page got displayed:

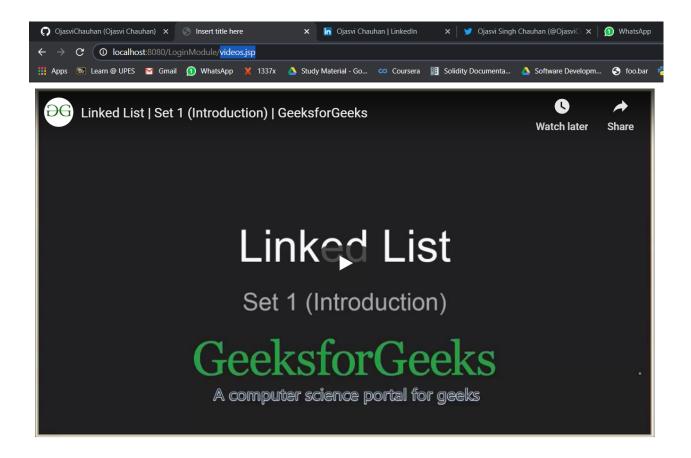


Welcome Ojasvi

Here is a video on <u>Linked Lists</u> from GeeksforGeeks. Click <u>here</u> to visit my GitHub Profile. Click <u>here</u> to visit my LinkedIn Profile.

Logout

On clicking Linked List link, we will reach to videos.jsp page which has a embedded video.



Conclusion

So this was the Dynamic Web Application created using Eclipse EE IDE.

The name of the Project is "Login Module".

Check my files on my GitHub Repository:

https://github.com/OjasviChauhan/Servlets/tree/master/LoginModule

Citations

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