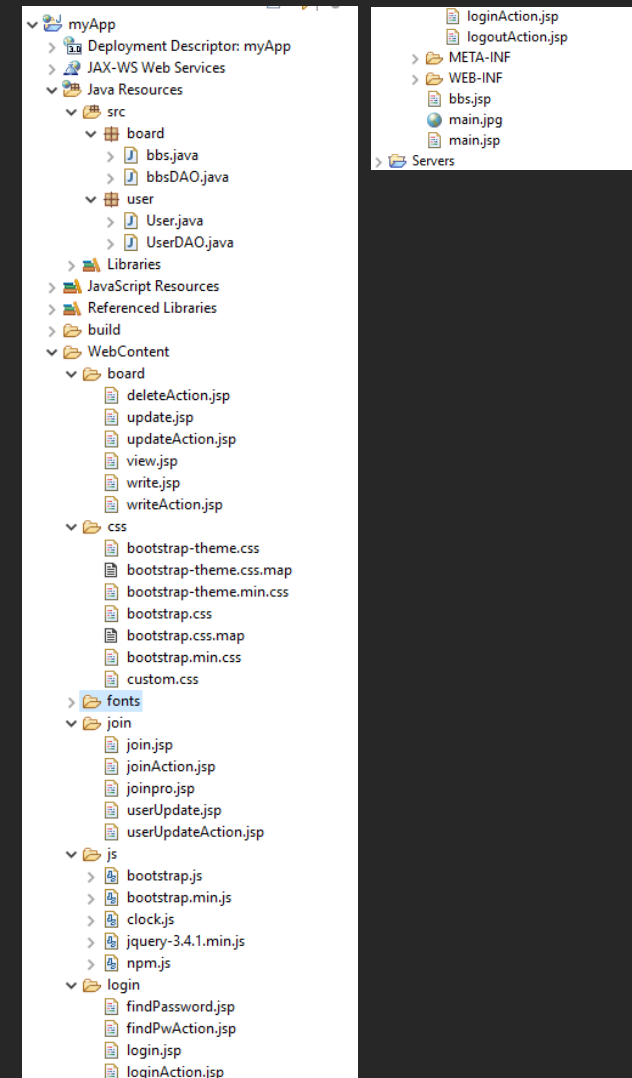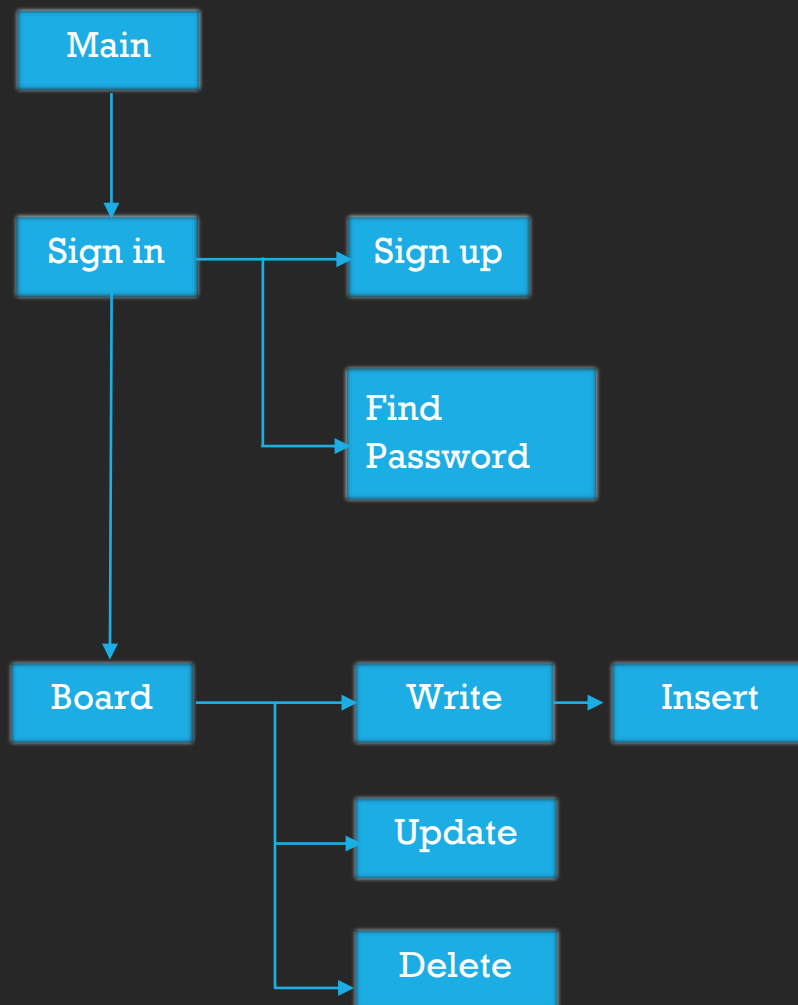# Portfolio

Dayoung Lee

About me

- Name : Dayoung Lee
- Email : dayoung5213@gmail.com
- Contact: 647.825.6971
- Used skills :
    Java. JSP. MySQL. Tomcat v9.0
    HTML. CSS. JavaScript
- Github : https://github.com/dayoung-lee/Portfolio/tree/master/project1/LoginUser

This is my first project that use JSP. It is a simple website that user can sign in, sign up and write in a board.

Project Structure

```
Main
  |
  v
Sign in  -->  Sign up
  |
  |      -->  Find
  |           Password
  v
Board  -->  Write  -->  Insert
  |
  |    -->  Update
  |
  |    -->  Delete
```

```
myApp
  > Deployment Descriptor: myApp
  > JAX-WS Web Services
  v Java Resources
    v src
      v board
        > bbs.java
        > bbsDAO.java
      v user
        > User.java
        > UserDAO.java
    > Libraries
  > JavaScript Resources
  > Referenced Libraries
  > build
  v WebContent
    v board
        deleteAction.jsp
        update.jsp
        updateAction.jsp
        view.jsp
        write.jsp
        writeAction.jsp
    v css
        bootstrap-theme.css
        bootstrap-theme.css.map
        bootstrap-theme.min.css
        bootstrap.css
        bootstrap.css.map
        bootstrap.min.css
        custom.css
    > fonts
    v join
        join.jsp
        joinAction.jsp
        joinpro.jsp
        userUpdate.jsp
        userUpdateAction.jsp
    v js
      > bootstrap.js
      > bootstrap.min.js
      > clock.js
      > jquery-3.4.1.min.js
      > npm.js
    v login
        findPassword.jsp
        findPwAction.jsp
        login.jsp
        loginAction.jsp
```

```
        loginAction.jsp
        logoutAction.jsp
      > META-INF
      > WEB-INF
        bbs.jsp
        main.jpg
        main.jsp
  > Servers
```

MySQL

userID	VARCHAR(20)	☑	☑	☐	☐	☐	☐	☐	☐
userPassword	VARCHAR(20)	☐	☐	☐	☐	☐	☐	☐	☐
FirstName	CHAR(40)	☐	☐	☐	☐	☐	☐	☐	☐
LastName	CHAR(40)	☐	☐	☐	☐	☐	☐	☐	☐
birthday	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐
email	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐
PhoneNumber	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐
Address	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐

projectdb/user

bbsID	INT(11)	☑	☑	☐	☐	☐	☐	☐	☐
bbsTitle	VARCHAR(50)	☐	☐	☐	☐	☐	☐	☐	☐
userID	VARCHAR(20)	☐	☐	☐	☐	☐	☐	☐	☐
bbsDate	DATETIME	☐	☐	☐	☐	☐	☐	☐	☐
bbsContent	VARCHAR(2048)	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐

projectdb/bbs

```
try {
    String dbURL = "jdbc:mysql://localhost:3306/projectdb?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC";
    String dbID = "root";
    String dbPassword = "ekdud521";
    Class.forName("com.mysql.cj.jdbc.Driver");
    conn = DriverManager.getConnection(dbURL, dbID, dbPassword);
    System.out.println("connect to mysql success.");
```
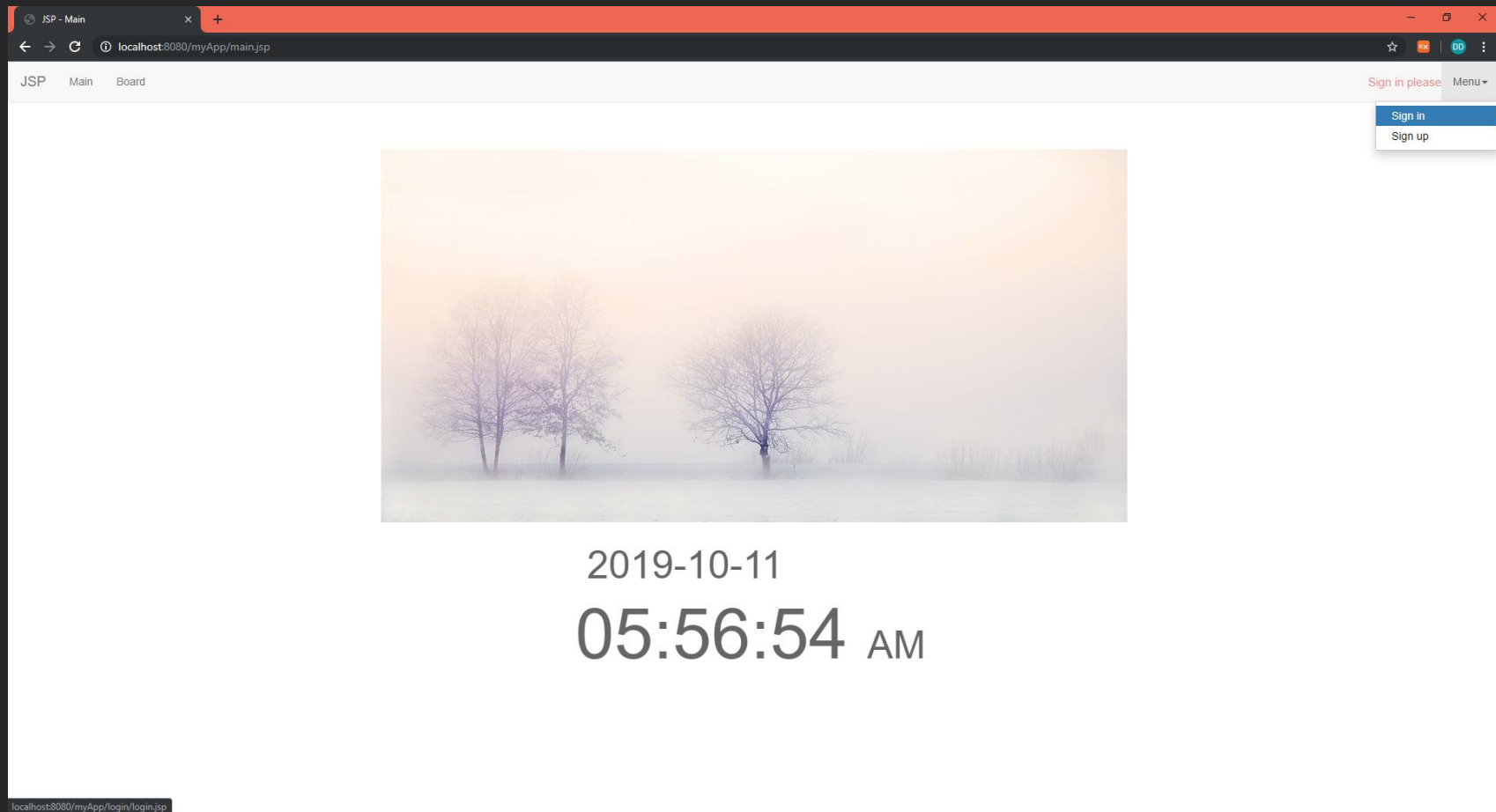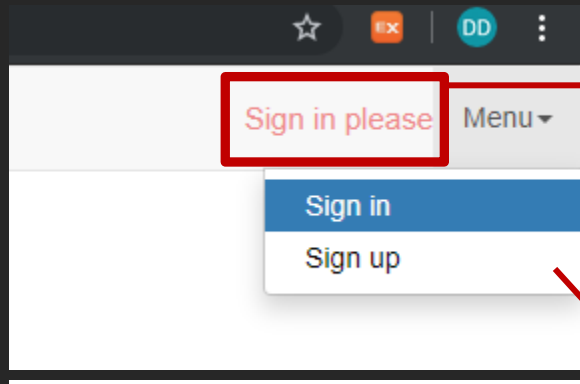
userDAO.java

connection

Main

Css : bootstrap.css + custom.js

Js : bootstrap.js + jQuery (menu animation) + Clock (date + time)
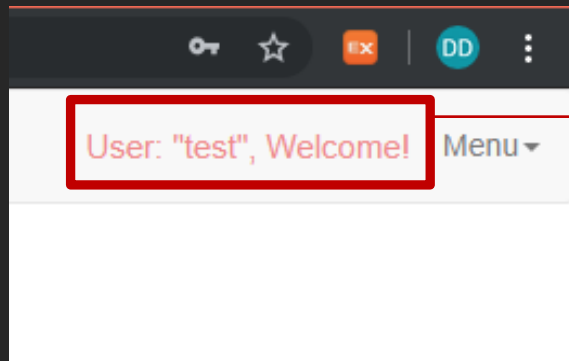
Main

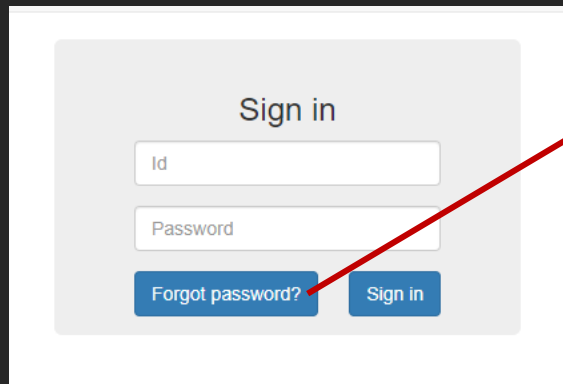Before sign in,

 print "Sign in please"
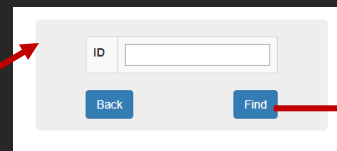
After sign in,

 print "User: (userID), Welcome!"

Dropdown menu

(jquery-3.4.1.min.js)
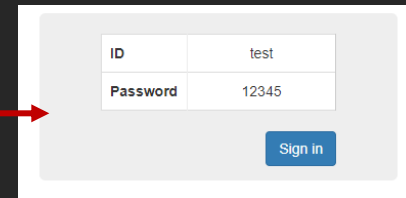
Sign In

login.jsp

findPassword.jsp
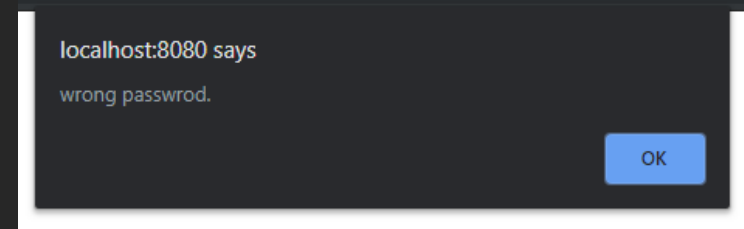
- use "post" method.
- use javaBean to get user information.

```
<form action = "findPwAction.jsp" method = "post">
    <table class="table" style="text-align:center; border:1px solid #dddddd; background-color : #ffffff">
        <tr><th>ID</th>
        <td><%=user.getUserID()%></td></tr>
        <tr><th>Password</th>
        <td><%=user.getUserPassword() %></td></tr>

    </table>
    <input type = "button" class = "btn btn-primary pull-right" onclick = "location.href='login.jsp'" value = "Sign in"/>
</form>
```

findPwAction.jsp

- If user type wrong password, alert message.

localhost:8080 says

wrong passwrod.

OK

Sign Up

join.jsp

- use "post" method.
- use javaBean to insert user information.

joinAction.jsp

```
int result = userDAO.join(user);
if(result == -1){
    PrintWriter script = response.getWriter();
    script.println("<script>");
    script.println("alert('The ID is already taken.')");
    script.println("history.back()");
    script.println("</script>");
}else{ //join success.
    PrintWriter script = response.getWriter();
    script.println("<script>");
    script.println("alert('Welcome.')");
    script.println("location.href = '../main.jsp'");
    script.println("</script>");
}
}
```


User table

	userID	userPassword	FirstName	LastName	birthday	email	PhoneNumber	Address
▶	test	12345	Dayoung	Lee	1991-11-30	abc@gmail.com	123456789	Canada
	user1	1234	Dayoung	Lee	1991-11-30	abc@gmail.com	6478256971	28 Pemberton Ave
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
public int join(User user) {
    String SQL = "INSERT INTO USER VALUES (?,?,?,?,?,?,?,?)";
    stringToDate(user);
    try {
        pstmt = conn.prepareStatement(SQL);
        pstmt.setString(1,  user.getUserID());
        pstmt.setString(2,  user.getUserPassword());
        pstmt.setString(3,  user.getUserFirstName());
        pstmt.setString(4,  user.getUserLastName());
        pstmt.setDate(5, stringToDate(user));
        pstmt.setString(6,  user.getUserEmail());
        pstmt.setString(7,  user.getUserPhoneNumber());
        pstmt.setString(8,  user.getUserAddress());

        return pstmt.executeUpdate();
    }catch (Exception e) {
        e.printStackTrace();
    }
    return -1;
}
```

userDAO.java

My Page

Joinpro.jsp

- use "post" method.
- use javaBean to insert user information.

```java
public User getUserInfo(String userID) {
    String SQL = "SELECT * FROM USER WHERE userID=? ";
    /*userID, userPassword, FirstName, LastName, birthday, email, phoneNumber, Address */
    User user = null;
    try {
        PreparedStatement pstmt = conn.prepareStatement(SQL);
        pstmt.setString(1, userID);
        rs = pstmt.executeQuery();
        user = new User(); // DAO
        if(rs.next()) {
            user.setUserID(rs.getString("userID"));
            user.setUserPassword(rs.getString("userPassword"));
            user.setUserFirstName(rs.getString("FirstName"));
            user.setUserLastName(rs.getString("LastName"));
            user.setUserbirthyy(rs.getString("birthday"));
            user.setUserEmail(rs.getString("email"));
            user.setUserPhoneNumber(rs.getString("PhoneNumber"));
            user.setUserAddress(rs.getString("Address"));
        }
        return user;
    }catch(Exception e){
        e.printStackTrace();
    }
    return null;
}
```

userDAO.java

My Page – Update


```
<form method="post" action="userUpdateAction.jsp">
<table class="table table-striped" style="text-align:center; border:1px solid #dddddd">
    <tr><th>ID</th>
        <td><%=user.getUserID() %></td>
    </tr>
    <tr><th>Password</th>
        <td><input type="password" name ="password" maxlength="20"
        value="<%=user.getUserPassword() %> "></td></tr>
    <tr><th>Name</th>
    <td><%=user.getUserFirstName() %>  <%=user.getUserLastName() %></td></tr>
    <tr><th>Birthday</th>
    <td><%=user.getUserbirthyy() %></td></tr>
    <tr><th>Email</th>
    <td><input type="text" name ="email" maxlength="45"
        value="<%=user.getUserEmail() %> "></td></tr>
    <tr><th>Phone Number</th>
    <td><input type="text" name ="phoneNumber" maxlength="45"
        value="<%=user.getUserPhoneNumber()%>"></td></tr>
    <tr><th>Address</th>
    <td><input type="text" name ="address" maxlength="45"
        value="<%=user.getUserAddress()%>"></td></tr>
</table>
<input type="button" class="btn btn-primary pull-left" onclick="location.href='joinpro.jsp'" value="Cancel">
<input type="submit" class="btn btn-primary pull-right" value="Update">
</form>
```

userUpdate.jsp

```
// update user information
public int updateUser(String userID, String userPassword, String email, String phoneNumber, String address) {
    String SQL = "UPDATE user SET userPassword=?, email=?, PhoneNumber=?, Address=? WHERE userID=?";
    try {
        System.out.println(userID + " " +userPassword);
        pstmt = conn.prepareStatement(SQL);
        pstmt.setString(1, userPassword);
        pstmt.setString(2, email);
        pstmt.setString(3, phoneNumber);
        pstmt.setString(4, address);
        pstmt.setString(5, userID);
        return pstmt.executeUpdate();
    }catch(Exception e) {
        e.printStackTrace();
    }
    return -1;
}
```
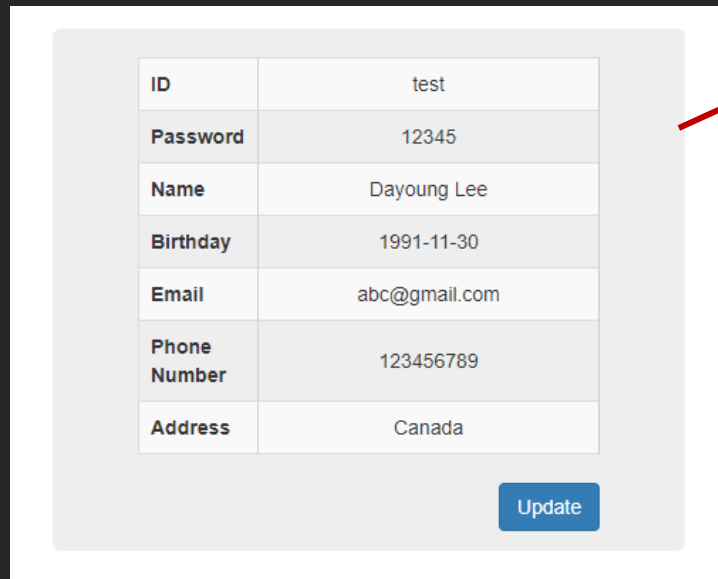
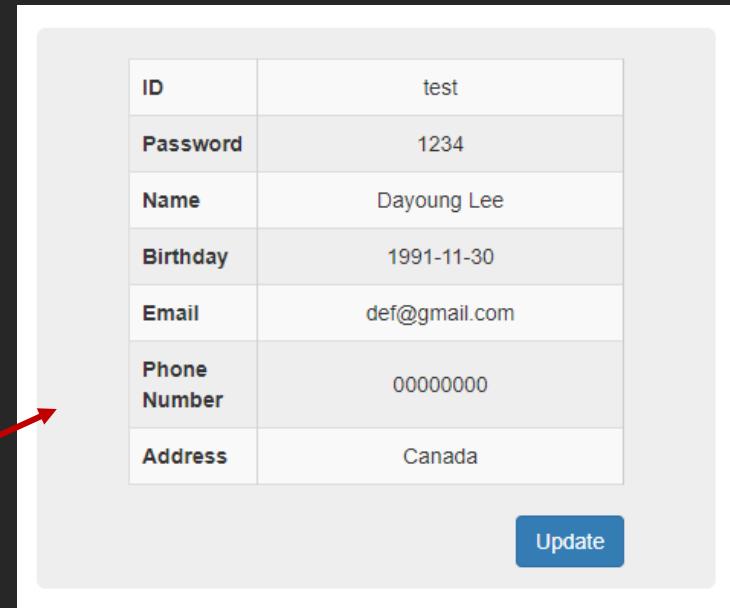userDAO.java

My Page – Update

Show if the information is updated.

- Alert('Updated');

javapro.jsp shows information changes.

ID	test
Password	12345
Name	Dayoung Lee
Birthday	1991-11-30
Email	abc@gmail.com
Phone Number	123456789
Address	Canada

Update

ID	test
Password	1234
Name	Dayoung Lee
Birthday	1991-11-30
Email	def@gmail.com
Phone Number	00000000
Address	Canada

Update

Sign Out

```
<%
    session.invalidate();
%>
<script>
    location.href = '../main.jsp';
</script>
```

session.invalidate(); to logout.

After user sign out,

- back to main.jsp

Board - List

No.	Title	User	Date
2	aa	test	2019-10-11 05:06
1	test3	user1	2019-10-11 04:10

next   write

```jsp
<tbody>
    <%
        bbsDAO BbsDAO = new bbsDAO();
        ArrayList<bbs> list = BbsDAO.getList(pageNumber);
        for(int i=0; i<list.size();i++){
    %>
    <tr>
        <td><%=list.get(i).getBbsID()%></td>
        <td><a href="board/view.jsp?bbsID=<%=list.get(i).getBbsID()%>"><%=list.get(i).getBbsTitle()%></a></td>
        <td><%=list.get(i).getUserID()%></td>
        <td><%=list.get(i).getBbsDate().substring(0, 11) + list.get(i).getBbsDate().substring(11, 13) + ":"
            + list.get(i).getBbsDate().substring(14, 16)%></td>
    </tr>
    <%} %>
</tbody>
```
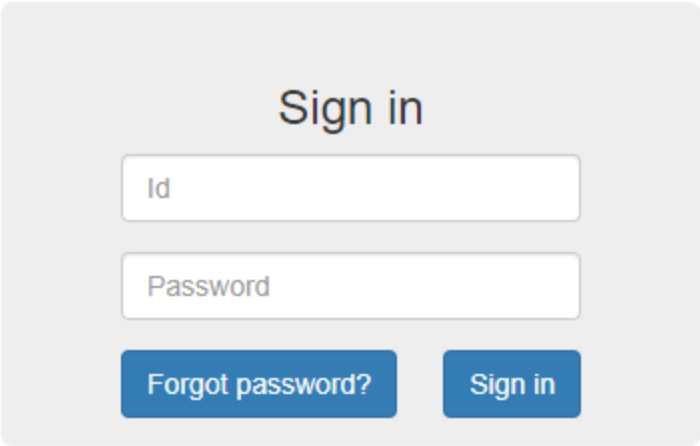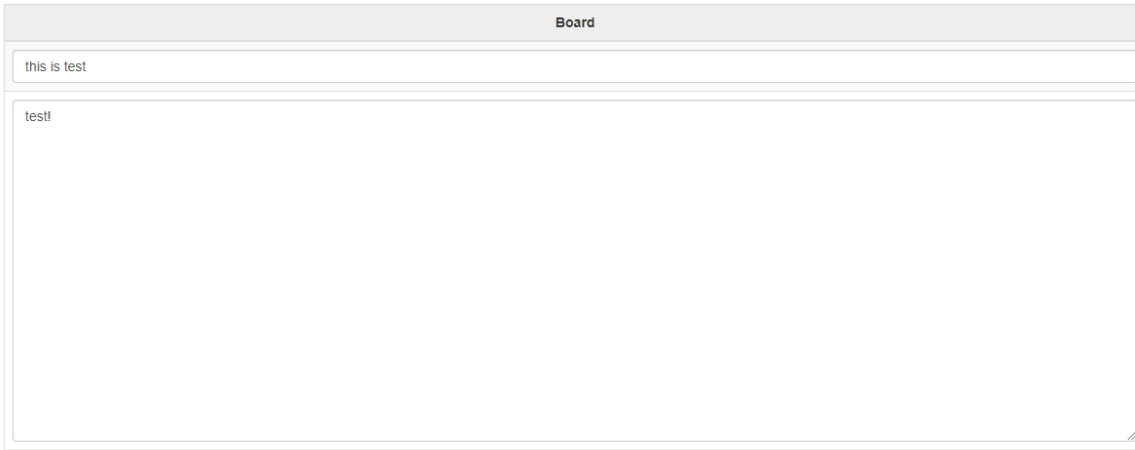
bbs.jsp

Board - Write

If user don't log in when press "write"

- show sign in

write.jsp

Board – View

Use board javaBean

to get board objects

```html
<thead>
    <tr>
        <th colspan = "3" style ="background-color: #eeeeee; text-align: center;">No.<%=Bbs.getBbsID()%></th>
    </tr>
</thead>
<tbody>
    <tr>
        <td style = "width:20%; border-right: 1px solid #ccc;"> Title </td>
        <td colspan = "2"><%= Bbs.getBbsTitle() %> </td>
    </tr>
    <tr>
        <td style = "border-right: 1px solid #ccc;">User</td>
        <td colspan = "2"><%= Bbs.getUserID() %> </td>
    </tr>
    <tr>
        <td style = "border-right: 1px solid #ccc;"> Date </td>
        <td colspan = "2"><%= Bbs.getBbsDate().substring(0,11) + Bbs.getBbsDate().substring(11,13) + ":"
        + Bbs.getBbsDate().substring(14, 16)%> </td>
    </tr>
    <tr>
        <td style = "border-right: 1px solid #ccc;"> Content </td>
        <td colspan = "2" style = "min-height: 200px; text-align: left;"><%=Bbs.getBbsContent()%> </td>
    </tr>
</tbody>
```
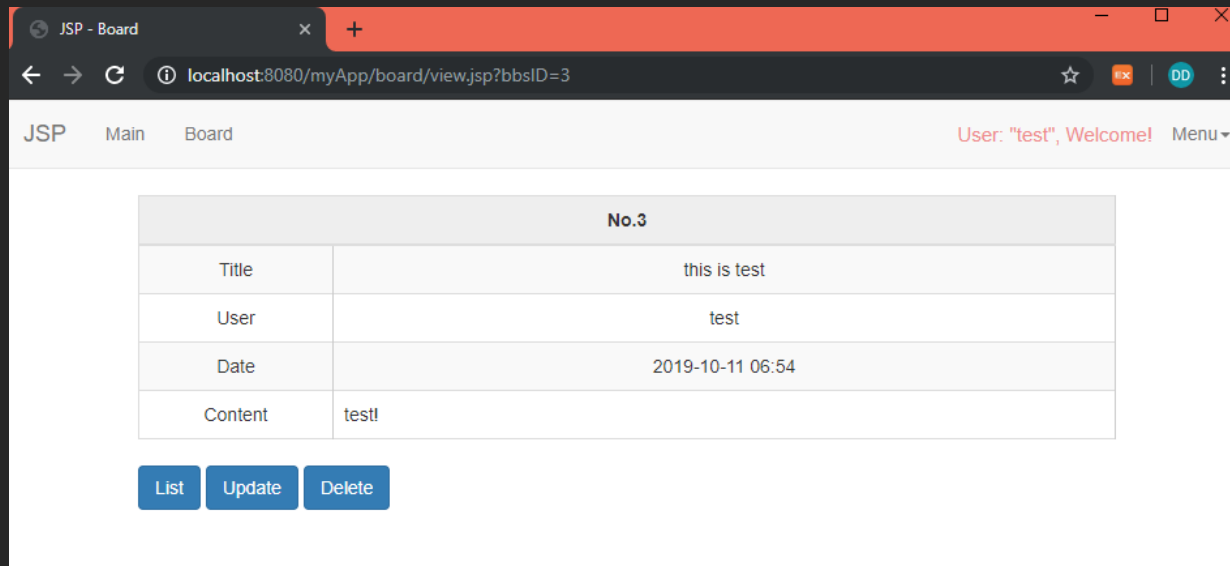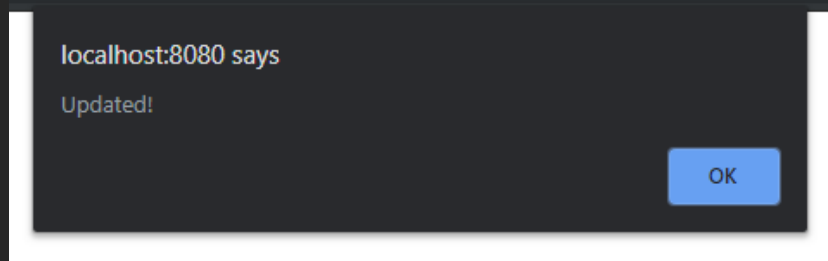
Board – Update

localhost:8080 says

Updated!

OK

Show message box,

if update succeed.

No.3	
Title	this is test
User	test
Date	2019-10-11 06:54
Content	* Update test!

List Update Delete

	bbsID	bbsTitle	userID	bbsDate	bbsContent
▶	1	test3	user1	2019-10-11 04:10:12	yexy4
	2	aa	test	2019-10-11 05:06:22	aaa a
	3	this is test	test	2019-10-11 06:54:57	*Update test!
*	NULL	NULL	NULL	NULL	NULL

Board table

Board - Delete

localhost:8080 says

Do you really want to delete it?

OK   Cancel
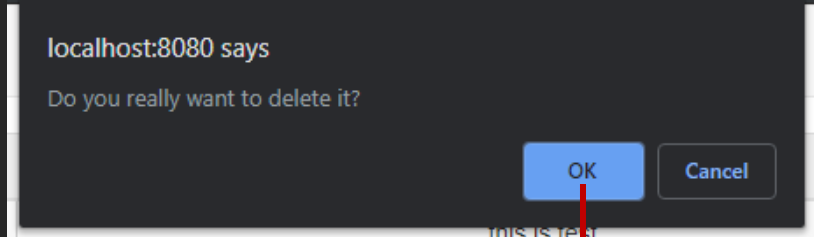
Show message box to ask delete.

No.	Title	User	Date
2	aa	test	2019-10-11 05:06
1	test3	user1	2019-10-11 04:10

next   write

	bbsID	bbsTitle	userID	bbsDate	bbsContent
▶	1	test3	user1	2019-10-11 04:10:12	yexy4
	2	aa	test	2019-10-11 05:06:22	aaa a
*	NULL	NULL	NULL	NULL	NULL

After delete the table

bbsDAO.jsp

```
// delete
public int delete(int bbsID) {
    String SQL = "DELETE FROM BBS WHERE bbsID=?";
    try {
        PreparedStatement pstmt = conn.prepareStatement(SQL);
        pstmt.setInt(1, bbsID);
        return pstmt.executeUpdate();
    } catch (Exception e) {
        e.printStackTrace();
    }
    return -1;
    }
```

Summary

    This is first project that I use JSP, before I start studying Spring. I have tried to put very simple but important function into the project. It was first time to connect database to JSP. Although the project is simple, it took some days because I have never studied JSP before. However, I really enjoyed and hopefully I can update some function more later. Thank you for watching my portfolio.