

# MemoNote semi Project 1 230130

앱 이름 : MyMEMO

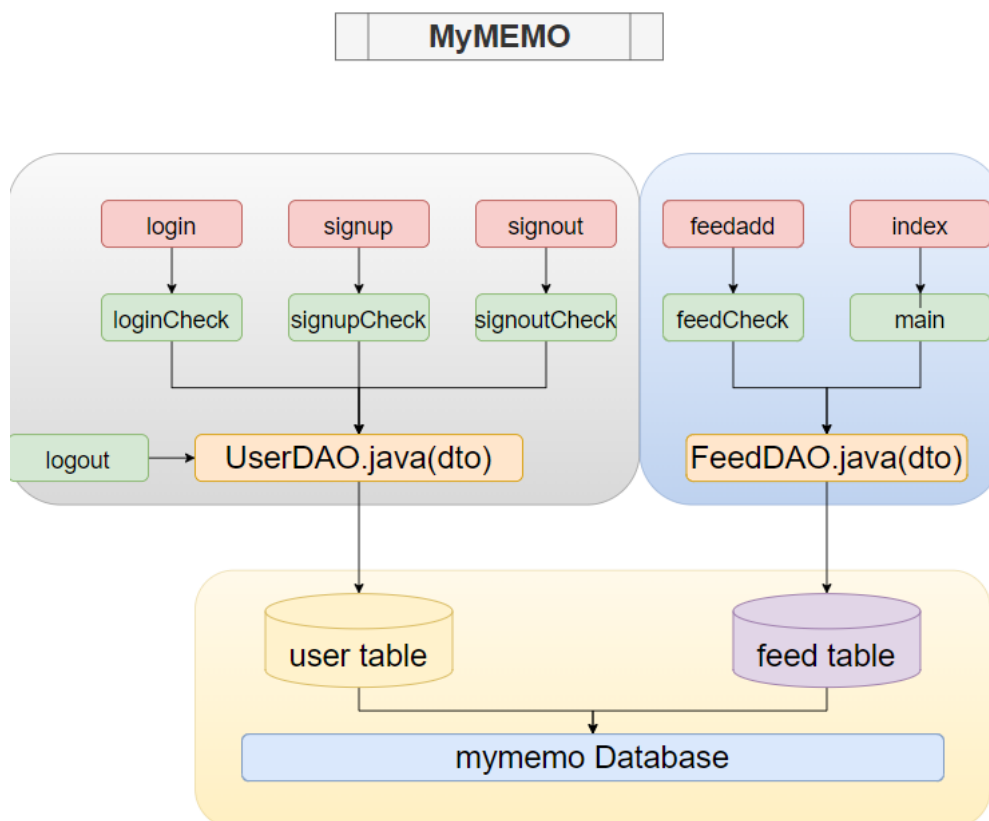
주요 사용 기술

JSP Version :

```
<%=JspFactory.getDefaultFactory().getEngineInfo().getSpecificationVersion() %>
```

프로젝트 구성 (Semi)

Project Name : MyMEMO



ConnectionPool

- context.xml
- ConnectionPool.java
- lib : mysql-connector-java-8.0.26.jar

DB 설계

user table

```
MySQL 8.0 Command Line Client - Unicode
mysql> desc user;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default          | Extra          |
+-----+-----+-----+-----+-----+-----+
| id    | varchar(128)  | NO   | PRI | NULL             |               |
| password | varchar(32)  | YES  |     | NULL             |               |
| name  | varchar(32)  | YES  |     | NULL             |               |
| ts    | timestamp     | YES  |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql>
```

```
CREATE TABLE `user` (
  `id` VARCHAR(128) NOT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `password` VARCHAR(32) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `name` VARCHAR(32) NULL DEFAULT NULL COLLATE 'utf8mb4_0900_ai_ci',
  `ts` TIMESTAMP NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (`id`) USING BTREE
)
COLLATE='utf8mb4_0900_ai_ci'
ENGINE=InnoDB
;
```

## UserDTO

```
package jdbc;

public class userDTO {

    private String id, password, name, ts;

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getTs() {
        return ts;
    }

    public void setTs(String ts) {
        this.ts = ts;
    }

    public userDTO(String id, String password, String name, String ts) {
```

```

super();
this.id = id;
this.password = password;
this.name = name;
this.ts = ts;
}

public userDTO() {

}

}

```

## UserDAO

```

package jdbc;

import java.sql.*;
import java.util.ArrayList;

import javax.naming.NamingException;

import util.ConnectionPool;

public class userDAO {

    //회원 가입
    public static int insert(String id, String password, String name) throws NamingException, SQLException {

        Connection conn = null;
        PreparedStatement pstmt = null;

        try {
            String sql = "INSERT INTO user(id,password,name) VALUES(?,?,?)";

            conn = ConnectionPool.get();
            pstmt = conn.prepareStatement(sql);
            pstmt.setString(1, id);
            pstmt.setString(2, password);
            pstmt.setString(3, name);

            return pstmt.executeUpdate(); //성공 1, 실패 0 을 가지고 나간다.

        }finally {
            if(pstmt != null) pstmt.close();
            if(conn != null) conn.close();
        }
    }

    //회원 가입시 아이디가 이미 존재하는 지 여부 확인
    public static boolean exist(String id) throws NamingException, SQLException {

        Connection conn = null;
        PreparedStatement pstmt = null;
        ResultSet rs = null;

        try {
            String sql = "SELECT id FROM user WHERE id = ?";

            conn = ConnectionPool.get();
            pstmt = conn.prepareStatement(sql);
            pstmt.setString(1, id);

            rs = pstmt.executeQuery();

            return rs.next(); // 조회한 아이디가 DB에 존재하면 true 없으면 false

        }finally {
            if(rs != null) rs.close();
            if(pstmt != null) pstmt.close();
            if(conn != null) conn.close();
        }
    }

    // 회원 탈퇴
    public static int delete(String id) throws NamingException, SQLException {

```

```

Connection conn = null;
PreparedStatement pstmt = null;

try {
    String sql = "DELETE FROM user WHERE id = ?";

    conn = ConnectionPool.get();
    pstmt = conn.prepareStatement(sql);
    pstmt.setString(1, id);

    return pstmt.executeUpdate(); //성공 1, 실패 0 을 가지고 나간다.

}finally {
    if(pstmt != null) pstmt.close();
    if(conn != null) conn.close();
}
}

//회원 로그인
public static int login(String id, String upassword) throws NamingException, SQLException {

    Connection conn = null;
    PreparedStatement pstmt = null;
    ResultSet rs = null;

    try {
        String sql = "SELECT id, password FROM user WHERE id = ?";

        conn = ConnectionPool.get();
        pstmt = conn.prepareStatement(sql);
        pstmt.setString(1, id);

        rs = pstmt.executeQuery();

        if(!rs.next()) return 1; // 1 아이디가 존재하지 않는 경우
        if(!upassword.equals(rs.getString("password"))) return 2; //아이디는 존재하지만 비밀번호 일치하지 않는 경우
        return 0; // 로그인 성공

    }finally {
        if(rs != null) rs.close();
        if(pstmt != null) pstmt.close();
        if(conn != null) conn.close();
    }
}

//회원 목록, 꺼내기 연습용
public static ArrayList<userDTO> list() throws NamingException, SQLException {

    Connection conn = null;
    PreparedStatement pstmt = null;
    ResultSet rs = null;

    try {
        String sql = "SELECT * FROM user ORDER BY ts DESC";

        conn = ConnectionPool.get();
        pstmt = conn.prepareStatement(sql);

        rs = pstmt.executeQuery();

        ArrayList<userDTO> users = new ArrayList<userDTO>();

        while(rs.next()) {
            users.add(new userDTO(rs.getString(1),
                                   rs.getString(2),
                                   rs.getString(3),
                                   rs.getString(4)));

        }return users;

    }finally {
        if(rs != null) rs.close();
        if(pstmt != null) pstmt.close();
        if(conn != null) conn.close();
    }
}
}

```

signupCheck.jsp

```

<%@page import="jdbc.userDAO"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<%

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

// 이미 DB에 사용중인 아이디 인지 먼저 확인

if(userDAO.exist("id")){
    out.print("이미 가입한 회원입니다. 다시 시도하세요");
    return;
}

// 디비에 넣기

int result = userDAO.insert(id, password, name);

if(result==1){
    out.print("회원 가입 성공");
    response.sendRedirect("main.jsp");
}

%>

```

## 회원가입

아이디	<input type="text" value="Email address"/>
패스워드	<input type="password"/>
패스워드(확인)	<input type="password"/>
이름	<input type="text"/>

회원가입하기

```

<form action="signupCheck.jsp" method="post">
  <div class="page-hdr">회원가입</div>
  <div class="page-body">
    <div class="section pad-24 mtop-30">
      <input type="text" name="id" placeholder="아이디" required>
      <input type="password" name="password" class="mtop-10" placeholder="비밀번호" required>
      <input type="text" name="name" class="mtop-10" placeholder="이름" required>
      <input type="submit" class="mtop-20" value="회원가입">
    </div>
  </div>
  <div class="page-footer">Copyright: mysns.com, 2021</div>
</form>

```

```

<%@page import="jdbc.userDAO"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>

```

```

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GlhtQT8
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMY0G+800xUf+/Im1MZjXxxg0CBQBXU=" crossorigin=

<%

request.setCharacterEncoding("utf-8");

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

if(userDAO.exist(id)) {
%>

<!-- Modal -->
<div class="modal fade" id="exampleModal1" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <h1 class="modal-title fs-5" id="exampleModalLabel">중복아이디</h1>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        다른 아이디 사용하세요
      </div>
      <div class="modal-footer">
        <button onclick="location.href='main.jsp' class="btn btn-primary">다른 아이디</button>
      </div>
    </div>
  </div>
</div>
</div>
<script>
$(function() {
  $("#exampleModal1").modal("show");
});
</script>
<%

} else {

if((userDAO.insert(id, password, name) == 1) ? true : false) {
%>

<!-- Modal -->
<div class="modal fade" id="exampleModal2" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <h1 class="modal-title fs-5" id="exampleModalLabel">회원가입성공</h1>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        회원 가입 성공
      </div>
      <div class="modal-footer">
        <button onclick="location.href='main.jsp' class="btn btn-primary">메인 이동</button>
      </div>
    </div>
  </div>
</div>
</div>
<script>
$(function() {
  $("#exampleModal2").modal("show");
});
</script>
<%

}

}

%>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPFDkMBDXo30jS

</body>
</html>

```

## 로그인

아이디	<input type="text" value="Email address"/>
패스워드	<input type="password"/>
<input type="button" value="로그인하기"/>	

아직 회원이 아니세요?

[회원가입](#)

```
String id = request.getParameter("id");
String password = request.getParameter("password");
```

```
int result = userDao.login(id, password);

if(result == 1) {
    out.print("아이디가 존재하지 않습니다.");
}else if (result == 2) {
    out.print("암호가 일치하지 않습니다.");
}else {
    out.print("로그인 성공");
}
```

```
<%@page import="jdbc.userDAO"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%
    String id = request.getParameter("id");
    String password = request.getParameter("password");

    int result = userDao.login(id, password);

    if(result == 1) {
        out.print("아이디가 존재하지 않습니다.");
    }else if (result == 2) {
        out.print("암호가 일치하지 않습니다.");
    }else {
        out.print("로그인 성공");
    }

%>
```

loginCheck.jsp

```

<%@page import="jdbc.userDAO"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLh
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXy0G+800xUf+/Im1MZjXxxg0CBQBXU=" crossorigin=

<%
String id = request.getParameter("id");
String password = request.getParameter("password");

int result = userDAO.login(id, password);

if(result == 1) {
%>
    <!-- Modal -->
    <div class="modal fade" id="exampleModal1" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
        <div class="modal-dialog">
            <div class="modal-content">
                <div class="modal-header">
                    <h1 class="modal-title fs-5" id="exampleModalLabel">존재하지 않는 아이디입니다.</h1>
                    <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
                </div>
                <div class="modal-body">
                    다시 확인 후 로그인 해 주세요
                </div>
                <div class="modal-footer">
                    <button onclick="location.href='signup.jsp'" class="btn btn-primary">회원 가입 이동</button>
                </div>
            </div>
        </div>
    </div>
</div>

<script>
$(function() {
    $("#exampleModal1").modal("show");
});
</script>

<%

} else if (result == 2) {
%>
    <!-- Modal -->
    <div class="modal fade" id="exampleModal2" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
        <div class="modal-dialog">
            <div class="modal-content">
                <div class="modal-header">
                    <h1 class="modal-title fs-5" id="exampleModalLabel">암호가 일치하지 않습니다. </h1>
                    <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
                </div>
                <div class="modal-body">
                    암호를 다시 확인하고 로그인해 주세요
                </div>
                <div class="modal-footer">
                    <button onclick="location.href='login.jsp'" class="btn btn-primary">로그인 이동</button>
                </div>
            </div>
        </div>
    </div>
</div>

<script>
$(function() {
    $("#exampleModal2").modal("show");
});
</script>

<%

} else {
    session.setAttribute("id", id);
%>
    <!-- Modal -->
    <div class="modal fade" id="exampleModal1" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
        <div class="modal-dialog">
            <div class="modal-content">
                <div class="modal-header">

```



```

        <h1 class="modal-title fs-5" id="exampleModalLabel">로그인 성공</h1>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        방문을 환영합니다.
      </div>
      <div class="modal-footer">
        <button onclick="location.href='main.jsp'" class="btn btn-primary">메인 이동</button>
      </div>
    </div>
  </div>
</div>

<script>
  $(function() {
    $("#exampleModal1").modal("show");
  });
</script>

<%

}

%>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfdkMBDXo30jS

```

## 회원탈퇴

아이디

Email address

회원탈퇴하기

signout.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>회원 탈퇴</title>
</head>
<body>
<h3></h3><회원 탈퇴></h3>
<form action="signoutCheck.jsp">
아이디:<input type="text" name="id"><br>
암 호 :<input type="password" name="password"><br>
<br><br>
<input type="submit" value="회원 탈퇴">
</form>
</body>
</html>

```

signoutCheck.jsp

```

<%@page import="jdbc.userDAO"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

```

```

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<%
    String id = request.getParameter("id");
    String password = request.getParameter("password");

    int result = userDAO.login(id, password);

    if(result == 0) {
        userDAO.delete(id);
        out.print("회원 탈퇴 성공");
    } else {
        out.print("아이디 또는 비밀번호 일치하지 않습니다.");
    }

%>

</body>
</html>

```

## main.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-GLh
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXy0G+800xUf+/Im1MZjXxxg0cBQBxU=" crossorigin=

<%
    String sid = (String) session.getAttribute("id");
    if (sid == null){
%>
<!-- Modal -->
<div class="modal fade" id="exampleModal2" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="true">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h1 class="modal-title fs-5" id="exampleModalLabel">회원 전용 메뉴</h1>
                <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
            </div>
            <div class="modal-body">
                로그인한 회원만 사용 가능한 메뉴입니다.<br>
                로그인 화면으로 이동합니다.
            </div>
            <div class="modal-footer">
                <button onclick="location.href='login.jsp'" class="btn btn-primary">로그인 이동</button>
            </div>
        </div>
    </div>
</div>

    <script>
        $(function() {
            $("#exampleModal2").modal("show");
        });
    </script>

<%} else {
    session.setAttribute("id", sid);
}
%>

```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPFDkMBDXo30jS"
</body>
</html>
```

**JSP 와 Java Script 를 함께 섞어서 사용할때는 실행되는 순서를 먼저 고민하자.**

**JSP 는 서버사이드에서 JS 는 클라이언트사이드에서 실행되기 때문에 코드의 누락이 발생할 수 있다.**

The screenshot shows a web browser window with the title 'MySNS'. The address bar displays 'localhost:8080/MySNS2/login.html'. The page has a dark gray header with the text 'MySNS'. Below the header, there are two input fields: the first is labeled '아이디 (이메일주소)' and the second is labeled '패스워드'. Below these fields is a button labeled '로그인하기'. Underneath the button, there is a line of text: '아이디가 없으세요? 간단한 가입 절차를 통해 MySNS의 회원이 되실 수 있습니다.' Below this text is another button labeled '회원가입하기'. At the bottom of the page, there is a footer that reads 'Copyright: mysns.com, 202x'.

MySNS

아이디 (이메일주소)

패스워드

패스워드 (확인)

이름

회원가입하기

회원 가입시 MySNS의 약관에 동의하신 것으로 간주합니다.

약관보기

Copyright: mysns.com, 202x

MySNS

아이디 (이메일주소)

회원탈퇴하기

회원 탈퇴 시 회원 정보 및 활동 내역이 모두 삭제되며, 복원이 불가능하니 유의하시기 바랍니다.

Copyright: mysns.com, 202x

## AJAX 로 변경

main.jsp → mainAJAX.jsp

login.jsp → loginAJAX.jsp

## 방식 변경

form 삭제

함수를 호출하도록 단추 변경

```
<input type="submit" id="signin" onclick="signinFunction();" class="mtop-20" value="회원가입">
```

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-6LhLTQ8
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXy0G+800xUf+/Im1MZjXxxg0cBQBxU=" crossorigin=

</head>
<body>
<script>
function signinFunction() {
    $.ajax({
        type:"post",
        url: "signupCheckAJAX.jsp",
        data : {id:encodeURIComponent(document.getElementById('id').value),
            password:encodeURIComponent(document.getElementById('password').value),
            name:encodeURIComponent(document.getElementById('name').value)
        },
        dataType:"text",

        success:function(data) {
            var id = document.getElementById('id');
            var password = document.getElementById('password');
            var name = document.getElementById('name');
            id.value="";
            password.value="";
            name.value="";
        }
    });
}
</script>

<div class="container">

<main class="form-signin w-100 m-auto">

<!-- <form action="signupCheck.jsp" method="post"> -->

<h1 class="h3 mb-3 fw-normal">회원가입</h1>

<div class="form-floating">
    <input type="text" name="id" class="form-control" id="id" placeholder="아이디를 입력하세요">
    <label for="floatingInput">아이디</label>
</div>
<div class="form-floating">
    <input type="password" name="password" class="form-control" id="password" placeholder="암호를 입력하세요">
    <label for="floatingPassword">암호</label>
</div>
<div class="form-floating">
    <input type="text" name="name" class="form-control" id="name" placeholder="이름을 입력하세요">
    <label for="floatingInput">이름</label>
</div>

<!--      <input type="submit" class="mtop-20" value="회원가입">
-->
    <input type="submit" id="signin" onclick="signinFunction();" class="mtop-20" value="회원가입">
    <p class="mt-5 mb-3 text-muted">&copy; 2017-2022</p>
</form>
</main>

</div>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfdkMBDXo30JS
</body>
</html>

```

```
<%@page import="jdbc.userDAO"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%
    String id = request.getParameter("id");
    String password = request.getParameter("password");
    String name = request.getParameter("name");

    userDAO.insert(id,password,name);

%>
```