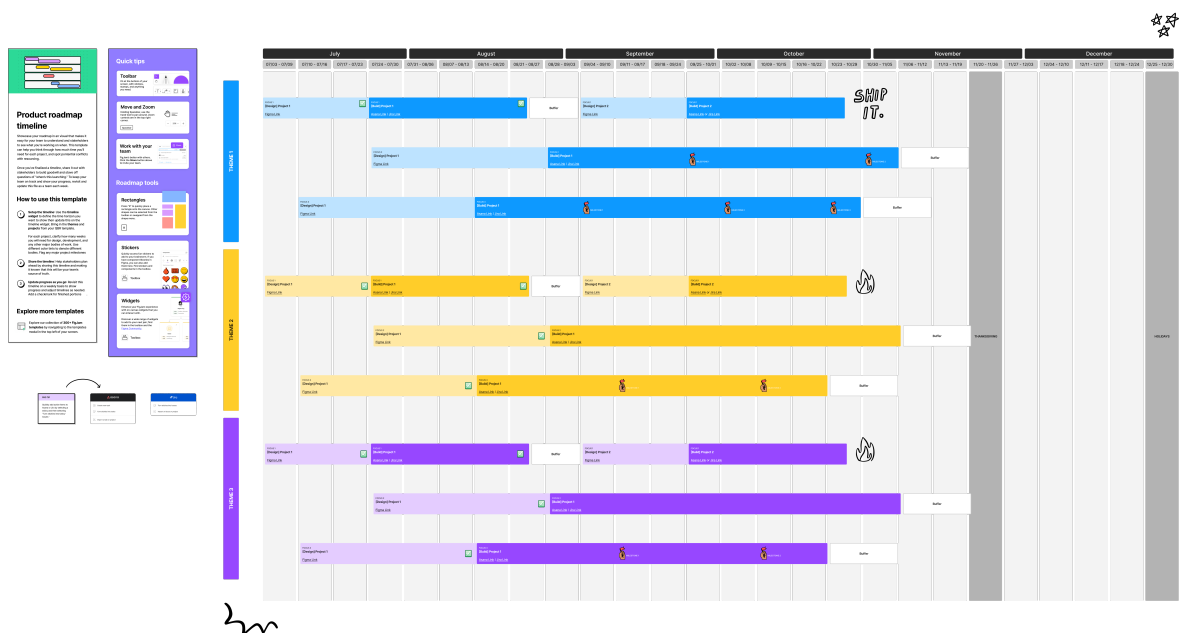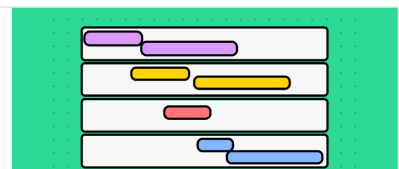# Class[MemoNote semi Project 1]

▼ Figma

Figma

https://www.figma.com/team_invite/redeem/VIS8AHsdIlgfjGUJG6n0S3

Product roadmap timeline template (Community)

Created with FigJam

https://www.figma.com/file/KH28IghdTJFMfpUqk4Nzvv/Product-roadmap-timeline-template-(Community)?node-id=0%3A1&t=D5kHzgj2sBFxyosT-1

▼ MemoNote Project

주요 사용 기술

	Name	Version
OS	WIndows	11
IDE	eGov	3.1.0
JDK	Java (Open JDK)	11.0.16
DB	MySQL	8
etc	Tomcat	8.5
	Bootstrap	5.3.0

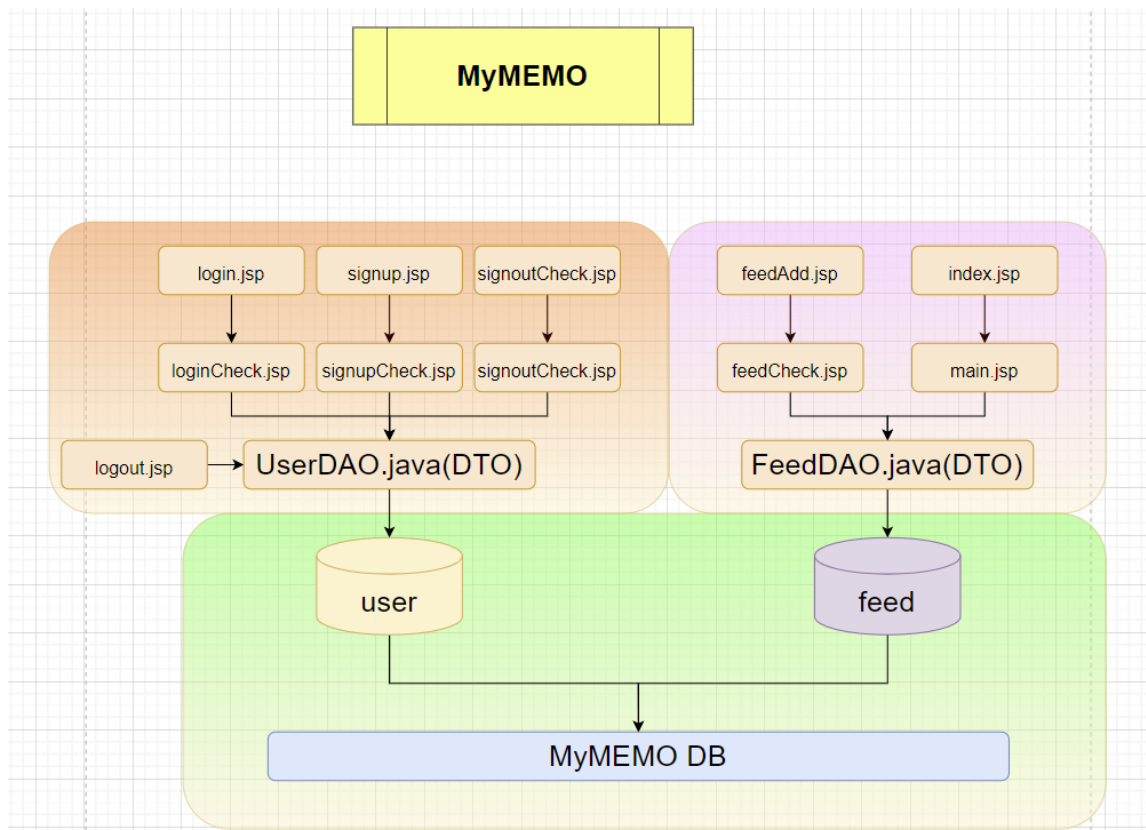|	Name	Version
	JSP	2.3
	mysql-connector	8.0.26
	heidi	12.3.0

JSP 버전 확인 코드

```
JSP Version :
<%=JspFactory.getDefaultFactory().getEngineInfo().getSpecificationVersion() %>
```
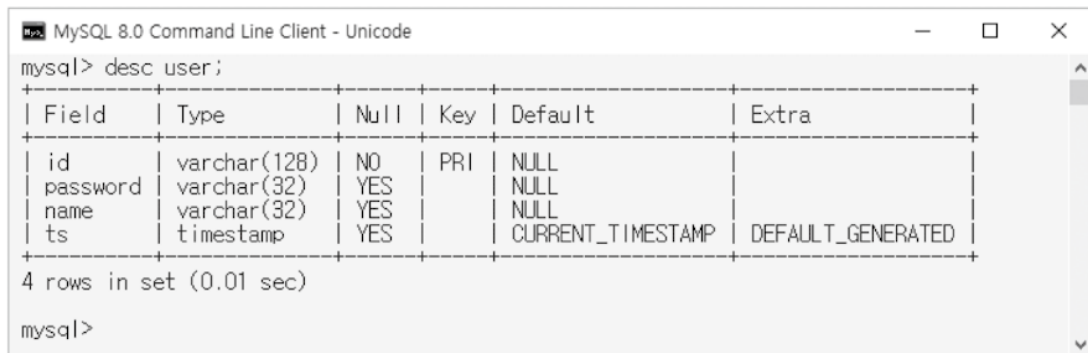
▼ 프로젝트 구성 (Semi)

Project Name : MyMEMO

▼ ConnectionPool 설정

- 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
;
```

▼ 로직 설계 & 화면 구성

UserDTO

```java
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() {
     super();
   }

}
```

UserDAO

```
package jdbc;

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


import util.ConnectionPool;

public class userDAO {

   //회원가입
   public static int insert(String id, String password, String name){

       //C R U D
       String sql = "INSERT INTO user (id, password, name) VALUES(?,?,?)";

       int result = 0;
       Connection conn = null;
       PreparedStatement pstmt = null;

       try {


       //커넥션 풀 사용
       conn = ConnectionPool.get();

       pstmt = conn.prepareStatement(sql);

       pstmt.setString(1, id);
       pstmt.setString(2, password);
       pstmt.setString(3, name);

       result = pstmt.executeUpdate();

       pstmt.close();
       conn.close();

       } catch (Exception e) {
         e.printStackTrace();
       }

       return result;


     }


   //회원가입시 아이디가 이미 존재하는지 여부 확인
   public static boolean exist(String id) throws SQLException{

     String sql = "SELECT * FROM user WHERE id=?";
     ResultSet rs = null;
```

```java
    Connection conn = null;
    PreparedStatement pstmt = null;
    try {


      conn = ConnectionPool.get();

      pstmt = conn.prepareStatement(sql);

      pstmt.setString(1, id);

      rs = pstmt.executeQuery();


      return rs.next();


    } catch (Exception e) {
      e.printStackTrace();
    }

    return rs.next();
}


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

  String sql = "DELETE FROM user where id=?";
  Connection conn = null;
  PreparedStatement pstmt = null;
  try {

    conn = ConnectionPool.get();

    pstmt = conn.prepareStatement(sql);

    pstmt.setString(1, id);

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




  } catch (Exception e) {
    e.printStackTrace();
  }finally {
    pstmt.close();
    conn.close();

  }
  return pstmt.executeUpdate();
}


//회원 로그인
public static int login(String id, String password){

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

  int result;

  Connection conn = ConnectionPool.get();

  PreparedStatement pstmt = conn.prepareStatement(sql);

  pstmt.setString(1, id);

  ResultSet rs = pstmt.executeQuery();


  if(!rs.next()) {
    result = 1; //아이디가 존재하지 않는 경우
  }else if (!password.equals(rs.getString("password"))) { //아이디는 존재하지만 비번이 일치하지 않는 경우
    result = 2;
  }else {
    result = 0; //로그인 성공
  }

  return result;

  } catch (Exception e) {
```

```java
      e.printStackTrace();
    }

    return 3;

//    if(!mpass.equals(rs.getString(2))) return 2; // 비번만 틀린 경우

  }


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

    String sql = "SELECT * FROM user ORDER BY ts DESC";
    Connection conn = null;
    PreparedStatement pstmt = null;

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

    try {


      conn = ConnectionPool.get();

      pstmt = conn.prepareStatement(sql);


      ResultSet rs = pstmt.executeQuery();


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

      return users;




    } catch (Exception e) {
      e.printStackTrace();
    }
    finally {
      pstmt.close();
      conn.close();

    }
    return users;


  }

}
```

signupCheck.jsp

```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-
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8O0xUf+/Im1MZjXxxgOcBQBXU=" cross
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMB


<!DOCTYPE html>
<%
  request.setCharacterEncoding("UTF-8");

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

  // 이미 DB에 사용중인 아이디인지 먼저 확인
  if(userDAO.exist(id)) {%>
```

```jsp
          <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">회원가입</h1>
                  <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
                </div>
                <div class="modal-body">
                이미 가입한 회원입니다. 다시 시도하세요.
                </div>
                <div class="modal-footer">
                  <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">확인</button>
                </div>
              </div>
            </div>
          </div>

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




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

      if(result == 1) {%>
          <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">회원가입 성공</h1>
                  <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
                </div>
                <div class="modal-body">
                회원가입 완료. 축하합니다!
                </div>
                <div class="modal-footer">
                  <button type="button" class="btn btn-secondary" onclick="location.href = 'main.jsp'" data-bs-dismiss="modal">확인</b
                </div>
              </div>
            </div>
          </div>

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




  %>
```

💡 **JSP와 Java Script를 함께 섞어서 사용할 때는 실행되는 순서를 먼저 생각하자.**

💡 **JSP는 서버사이드에서 JS는 클라이언트사이드에서 실행되기 때문에 코드의 누락이 발생될 수 있다.**

signup.jsp

회원가입

아이디	아이디
비밀번호	비밀번호
비밀번호(확인)	
이름	이름

회원가입

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

<div  style="padding-left: 600px; padding-top: 200px; ">
<h3>회원가입</h3>
<form action="signupCheck.jsp">
아이디        <input type="text" name="id" placeholder="아이디"><br>
비밀번호      <input type="text" name="password" placeholder="비밀번호"><br>
비밀번호(확인) <input type="text" name="passwordCheck"><br>
이름           <input type="text" name="name" placeholder="이름"><br><br>
<button type="submit">회원가입</button>
</form>
</div>
</body>
</html>
```

signupCheck.jsp

```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-
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8OOxUf+/Im1MZjXxxgOcBQBXU=" cross
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMB


<!DOCTYPE html>
<%
  request.setCharacterEncoding("UTF-8");

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

  // 이미 DB에 사용중인 아이디인지 먼저 확인
  if(userDAO.exist(id)) {%>
    <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">회원가입</h1>
            <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
          </div>
          <div class="modal-body">
        이미 가입한 회원입니다. 다시 시도하세요.
          </div>
```

```
              <div class="modal-footer">
                <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">확인</button>
              </div>
            </div>
          </div>
        </div>

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




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

    if(result == 1) {%>
        <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">회원가입 성공</h1>
                <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
              </div>
              <div class="modal-body">
              회원가입 완료. 축하합니다!
              </div>
              <div class="modal-footer">
                <button type="button" class="btn btn-secondary" onclick="location.href = 'main.jsp'" data-bs-dismiss="modal">확인</b
              </div>
            </div>
          </div>
        </div>

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



%>
```

login.jsp

로그인

아이디   아이디
비밀번호   비밀번호

로그인

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

```
</head>
<body>

<div  style="padding-left: 600px; padding-top: 200px; ">
<h3>로그인</h3>
<form action="loginCheck.jsp">
아이디        <input type="text" name="id" placeholder="아이디"><br>
비밀번호       <input type="text" name="password" placeholder="비밀번호"><br><br>
<button type="submit">로그인</button>
</form>
</div>
</body>
</html>
```

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-
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8O0xUf+/Im1MZjXxxgOcBQBXU=" cross
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkME


<!DOCTYPE html>
<%
  request.setCharacterEncoding("UTF-8");

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

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

  if(result == 1) {
    %>
    <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</h1>
            <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
          </div>
          <div class="modal-body">
          아이디가 존재하지 않습니다.
          </div>
          <div class="modal-footer">
            <button type="button" class="btn btn-secondary" onclick="location.href = 'signup.jsp'" data-bs-dismiss="modal">회원기
          </div>
        </div>
      </div>
    </div>

    <script>
      $(function() {
        $("#exampleModal1").modal("show");
      });
    </script><%
  }else if(result == 2) {
    %>
    <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">로그인</h1>
            <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
          </div>
          <div class="modal-body">
          비밀번호가 일치하지 않습니다.
          </div>
          <div class="modal-footer">
            <button type="button" class="btn btn-secondary" onclick="location.href = 'login.jsp'" data-bs-dismiss="modal">로그인
          </div>
        </div>
      </div>
    </div>

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

```
    }else {
      session.setAttribute("id", id);
    %>
    <div class="modal fade" id="exampleModal3" 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</h1>
            <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
          </div>
          <div class="modal-body">
        로그인 성공
          </div>
          <div class="modal-footer">
            <button type="button" class="btn btn-secondary" onclick="location.href = 'main.jsp'" data-bs-dismiss="modal">메인 이
          </div>
        </div>
      </div>
    </div>

    <script>
      $(function() {
        $("#exampleModal3").modal("show");
      });
    </script><%
  }


%>
```

signout.jsp

회원탈퇴

아이디   아이디

비밀번호   비밀번호

회원탈퇴

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

<div  style="padding-left: 600px; padding-top: 200px; ">
<h3>회원탈퇴</h3>
<form action="signoutCheck.jsp">
아이디        <input type="text" name="id" placeholder="아이디"><br>
비밀번호        <input type="text" name="password" placeholder="비밀번호"><br><br>
<button type="submit">회원탈퇴</button>
</form>
</div>
</body>
</html>
```

signoutCheck.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-
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8O0xUf+/Im1MZjXxxgOcBQBXU=" cross
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkME


<!DOCTYPE html>
<%
  request.setCharacterEncoding("UTF-8");

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

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

  if(result == 0) {
    userDAO.delete(id);
    %>
    <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">회원탈퇴</h1>
            <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
          </div>
          <div class="modal-body">
      회원 탈퇴 성공
          </div>
          <div class="modal-footer">
            <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">확인</button>
          </div>
        </div>
      </div>
    </div>

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

  }else{
    %>
    <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">회원탈퇴</h1>
            <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
          </div>
          <div class="modal-body">
      아이디 또는 비밀번호가 일치하지 않습니다.
          </div>
          <div class="modal-footer">
            <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">확인</button>
          </div>
        </div>
      </div>
    </div>

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

%>
```

logout.jsp

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

```jsp
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8O0xUf+/Im1MZjXxxgOcBQBXU=" cross
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkME

<%
 session.invalidate();
%>


<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">로그아웃 성공</h1>
           <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
         </div>
         <div class="modal-body">
       다시 이용하시려면 로그인하세요.
         </div>
         <div class="modal-footer">
           <button type="button" class="btn btn-secondary" onclick="location.href = 'main.jsp'" data-bs-dismiss="modal">로그인
         </div>
       </div>
     </div>
   </div>

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

▼ 화면 꾸미기

login.jsp


```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>로그인</title>
<%@ include file="header.jsp"%>
    <link href="sign-in.css" rel="stylesheet">

</head>
 <body class="text-center">

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

  <form action="loginCheck.jsp">
    <img class="mb-4" src="apple.png" alt="" width="72" height="57">
    <h1 class="h3 mb-3 fw-normal">로그인</h1>
```

```
    <div class="form-floating">
      <input type="text" name="id" class="form-control" id="floatingInput" placeholder="ID">
      <label for="floatingInput">ID</label>
    </div>
    <div class="form-floating">
      <input type="password" name="password" class="form-control" id="floatingPassword" placeholder="Password">
      <label for="floatingPassword">Password</label>
    </div>

    <div class="checkbox mb-3">
    </div>
    <button class="w-100 btn btn-lg btn-primary" type="submit">로그인</button>
    <p class="mt-5 mb-3 text-muted">&copy; 2017–2022</p>
  </form>
  </main>
<%@ include file="footer.jsp"%>
</body>
</html>
```

main.jsp


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

  <head>
    <meta charset="utf-8">
    <title>메인</title>



    <style>
      .bd-placeholder-img {
        font-size: 1.125rem;
        text-anchor: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        user-select: none;
      }

      @media (min-width: 768px) {
        .bd-placeholder-img-lg {
          font-size: 3.5rem;
        }
      }

      .b-example-divider {
        height: 3rem;
```

```
            background-color: rgba(0, 0, 0, .1);
            border: solid rgba(0, 0, 0, .15);
            border-width: 1px 0;
            box-shadow: inset 0 .5em 1.5em rgba(0, 0, 0, .1), inset 0 .125em .5em rgba(0, 0, 0, .15);
          }

          .b-example-vr {
            flex-shrink: 0;
            width: 1.5rem;
            height: 100vh;
          }

          .bi {
            vertical-align: -.125em;
            fill: currentColor;
          }

          .nav-scroller {
            position: relative;
            z-index: 2;
            height: 2.75rem;
            overflow-y: hidden;
          }

          .nav-scroller .nav {
            display: flex;
            flex-wrap: nowrap;
            padding-bottom: 1rem;
            margin-top: -1px;
            overflow-x: auto;
            text-align: center;
            white-space: nowrap;
            -webkit-overflow-scrolling: touch;
          }
      </style>


  </head>

  <body class="text-center">
  <%@ include file="header.jsp"%>
<%
String sid = (String) session.getAttribute("id");
if( sid == null) {%>
    <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">메시지</h1>
            <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
          </div>
          <div class="modal-body">
      회원전용메뉴입니다.
          </div>
          <div class="modal-footer">
            <button type="button" class="btn btn-secondary" onclick="location.href = 'login.jsp'" data-bs-dismiss="modal">로그인 이
          </div>
        </div>
      </div>
    </div>

  <script>
    $(function() {
      $("#exampleModal1").modal("show");
    });
  </script><%
}else {
  session.setAttribute("id", sid);
}
%>



<br><br>
<div class="container">
<main class="form-signin w-100 m-auto">
    <h1 class="h3 mb-3 fw-normal">My MEMO</h1>
    <img class="mb-4" src="apple.png" alt="" width="300" height="300">
</main>


    </div>


      <%@ include file="footer.jsp"%>
  </body>
```

```
</html>
```

signout.jsp


```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>회원탈퇴</title>
<%@ include file="header.jsp"%>
    <link href="sign-in.css" rel="stylesheet">

</head>
 <body class="text-center">

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

  <form action="signoutCheck.jsp">
    <img class="mb-4" src="apple.png" alt="" width="72" height="57">
    <h1 class="h3 mb-3 fw-normal">회원탈퇴</h1>

    <div class="form-floating">
      <input type="text" name="id" class="form-control" id="floatingInput" placeholder="ID">
      <label for="floatingInput">ID</label>
    </div>
    <div class="form-floating">
      <input type="password" name="password" class="form-control" id="floatingPassword" placeholder="Password">
      <label for="floatingPassword">Password</label>
    </div>

    <div class="checkbox mb-3">
    </div>
    <button class="w-100 btn btn-lg btn-primary" type="submit">회원탈퇴</button>
    <p class="mt-5 mb-3 text-muted">&copy; 2017-2022</p>
  </form>
  </main>
<%@ include file="footer.jsp"%>
</body>
</html>
```
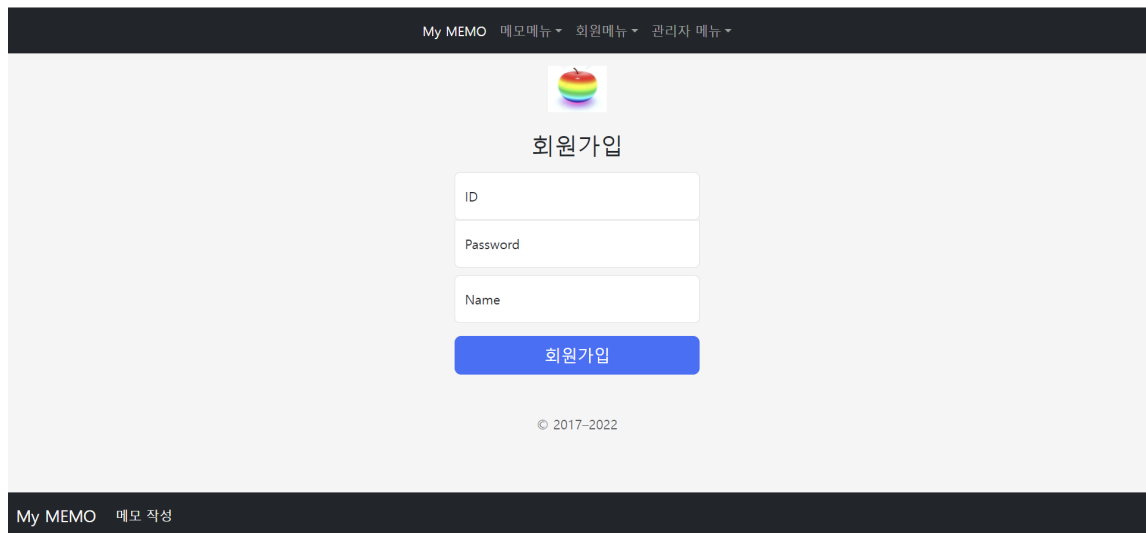
signup.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>

<head>
<meta charset="UTF-8">

<title>회원가입</title>
<%@ include file="header.jsp"%>
    <link href="sign-in.css" rel="stylesheet">
</head>
<body>

 <body class="text-center">

<main class="form-signin w-100 m-auto">
  <form action="signupCheck.jsp">
    <img class="mb-4" src="apple.png" alt="" width="72" height="57">
    <h1 class="h3 mb-3 fw-normal">회원가입</h1>

    <div class="form-floating">
      <input type="text" name="id" class="form-control" id="floatingInput" placeholder="ID">
      <label for="floatingInput">ID</label>
    </div>
    <div class="form-floating">
      <input type="password" name="password" class="form-control" id="floatingPassword" placeholder="Password">
      <label for="floatingInput">Password</label>
    </div>
    <div class="form-floating">
      <input type="text" name="name" class="form-control" id="floatingPassword" placeholder="Name">
      <label for="floatingInput">Name</label>
    </div>



    <div class="checkbox mb-3">
    </div>
    <button class="w-100 btn btn-lg btn-primary" type="submit">회원가입</button>
    <p class="mt-5 mb-3 text-muted">&copy; 2017–2022</p>
  </form>
</main>

    <%@ include file="footer.jsp"%>
  </body>
</body>
</html>
```

header.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import="java.util.*, java.security.*, java.io.*, java.net.*" %>
<%@page import="jdbc.*"%>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
<script src="https://code.jquery.com/jquery-3.6.3.min.js" integrity="sha256-pvPw+upLPUjgMXY0G+8O0xUf+/Im1MZjXxxgOcBQBXU=" cross
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPfDkMB
    <style>
      .bd-placeholder-img {
        font-size: 1.125rem;
        text-anchor: middle;
        -webkit-user-select: none;
        -moz-user-select: none;
        user-select: none;
      }

      @media (min-width: 768px) {
        .bd-placeholder-img-lg {
          font-size: 3.5rem;
        }
      }

      .b-example-divider {
        height: 3rem;
        background-color: rgba(0, 0, 0, .1);
        border: solid rgba(0, 0, 0, .15);
        border-width: 1px 0;
        box-shadow: inset 0 .5em 1.5em rgba(0, 0, 0, .1), inset 0 .125em .5em rgba(0, 0, 0, .15);
      }

      .b-example-vr {
        flex-shrink: 0;
        width: 1.5rem;
        height: 100vh;
      }

      .bi {
        vertical-align: -.125em;
        fill: currentColor;
      }

      .nav-scroller {
        position: relative;
        z-index: 2;
        height: 2.75rem;
        overflow-y: hidden;
      }

      .nav-scroller .nav {
        display: flex;
        flex-wrap: nowrap;
        padding-bottom: 1rem;
        margin-top: -1px;
        overflow-x: auto;
        text-align: center;
        white-space: nowrap;
        -webkit-overflow-scrolling: touch;
      }
    </style>

 <nav class="navbar navbar-expand-lg navbar-dark bg-dark" aria-label="Tenth navbar example">
    <div class="container-fluid">
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarsExample08" aria-controls="
        <span class="navbar-toggler-icon"></span>
      </button>

      <div class="collapse navbar-collapse justify-content-md-center" id="navbarsExample08">
        <ul class="navbar-nav">
          <li class="nav-item">
            <a class="nav-link active" aria-current="page" href="main.jsp">My MEMO </a>
          </li>
          <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" data-bs-toggle="dropdown" aria-expanded="false">메모메뉴</a>
            <ul class="dropdown-menu">
              <li><a class="dropdown-item" href="">메모작성</a></li>
              <li><a class="dropdown-item" href="">메모보기</a></li>
```

```
                    </ul>
                </li>
                        <li class="nav-item dropdown">
                  <a class="nav-link dropdown-toggle" href="#" data-bs-toggle="dropdown" aria-expanded="false">회원메뉴</a>
                  <ul class="dropdown-menu">
                    <li><a class="dropdown-item" href="login.jsp">로그인</a></li>
                    <li><a class="dropdown-item" href="logout.jsp">로그아웃</a></li>
                    <li><a class="dropdown-item" href="signup.jsp">회원가입</a></li>
                    <li><a class="dropdown-item" href="signout.jsp">회원탈퇴</a></li>
                  </ul>
                </li>
                        <li class="nav-item dropdown">
                  <a class="nav-link dropdown-toggle" href="#" data-bs-toggle="dropdown" aria-expanded="false">관리자 메뉴</a>
                  <ul class="dropdown-menu">
                    <li><a class="dropdown-item" href="">회원관리</a></li>
                    <li><a class="dropdown-item" href="">게시물관리</a></li>
                  </ul>
                </li>
              </ul>
            </div>
          </div>
        </nav>
```

footer.jsp

My MEMO   메모 작성

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

<nav class="navbar fixed-bottom navbar-expand-sm navbar-dark bg-dark">
  <div class="container-fluid">
    <a class="navbar-brand" href="main.jsp">My MEMO </a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarCollapse" aria-controls="navb
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarCollapse">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" href="#">메모 작성</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

sign-in.css

```
html,
body {
  height: 100%;
}

body {
/*   display: flex; */
  align-items: center;
/*   padding-top: 40px; */
/*   padding-bottom: 40px; */
  background-color: #f5f5f5;
}

.form-signin {
  max-width: 330px;
  padding: 15px;
}

.form-signin .form-floating:focus-within {
  z-index: 2;
}

.form-signin input[type="email"] {
  margin-bottom: -1px;
```

```css
    border-bottom-right-radius: 0;
    border-bottom-left-radius: 0;
}

.form-signin input[type="password"] {
  margin-bottom: 10px;
  border-top-left-radius: 0;
  border-top-right-radius: 0;
}
```

▼ AJAX 방식 사용하기

signup.jsp → signupAJAX.jsp

signupAJAX.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>

<head>
<meta charset="UTF-8">

<title>회원가입</title>
<%@ include file="header.jsp"%>
    <link href="sign-in.css" rel="stylesheet">
</head>
<body>

 <body class="text-center">

<main class="form-signin w-100 m-auto">
<!--   <form action="signupCheck.jsp"> -->
    <img class="mb-4" src="apple.png" alt="" width="72" height="57">
    <h1 class="h3 mb-3 fw-normal">회원가입</h1>

    <div class="form-floating">
      <input type="text" name="id" class="form-control" id="id" placeholder="ID">
      <label for="floatingInput">ID</label>
    </div>
    <div class="form-floating">
      <input type="password" name="password" class="form-control" id="password" placeholder="Password">
      <label for="floatingInput">Password</label>
    </div>
    <div class="form-floating">
      <input type="text" name="name" class="form-control" id="name" placeholder="Name">
      <label for="floatingInput">Name</label>
    </div>



    <div class="checkbox mb-3">
    </div>
<!--     <button class="w-100 btn btn-lg btn-primary" type="submit">회원가입</button> -->

  <input class="w-100 btn btn-lg btn-primary" type="submit" id="signin" onclick="signinFunction()" value="회원가입">
    <p class="mt-5 mb-3 text-muted">&copy; 2017–2022</p>
<!--   </form> -->
</main>

    <%@ include file="footer.jsp"%>
  </body>
</body>

<script>

function signinFunction() {
  $.ajax({
    type : 'post',
    url : "signupCheckAJAX.jsp",
    data : {
      id:encodeURIComponent(document.getElementById('id').value),
      password:(document.getElementById('password').value),
```

```
        name:(document.getElementById('name').value),
      },
      dataType : 'text',
      success : function(result) {
        var id = document.getElementById('id');
        var password = document.getElementById('password');
        var name = document.getElementById('name');
        id.value = "";
        password.value = "";
        name.value = "";

      },
      error : function(error) {
        console.log(error); //요청 실패 시 처리
      }

    });
}


</script>


</html>
```