JSP - 회원관리 및 게시판 구현1

JSP 4-2

📝 회원 및 게시판 시스템 구현 (1편)

📂 데이터베이스 구성

◆ 회원 테이블 (MYMEMBER)

```
CREATE TABLE MYMEMBER(
  ID NVARCHAR2(10) PRIMARY KEY,
  PW NVARCHAR2(20) NOT NULL,
  NAME NVARCHAR2(10) NOT NULL,
  PHONE NVARCHAR2(30) NOT NULL
);
```

◆ 게시판 테이블 (MYBOARD)

```
CREATE TABLE MYBOARD(
  BOARD_ID NUMBER(4) PRIMARY KEY,
  WRITER NVARCHAR2(50) NOT NULL,
  TITLE NVARCHAR2(50) NOT NULL,
  CONTENT NVARCHAR2(500) NOT NULL,
  BOARD_DATE TIMESTAMP DEFAULT SYSTIMESTAMP,
  HIT NUMBER(4) DEFAULT 0
);
```

◆ 게시판 시퀀스

```
CREATE SEQUENCE BOARD_SEQ
START WITH 1
INCREMENT BY 1
NOMAXVALUE
NOCACHE;
```

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	ID	NVARCHAR2(10 CHAR)	No	(null)	1	(null)
2	PW	NVARCHAR2(20 CHAR)	No	(null)	2	(null)
3	NAME	NVARCHAR2(10 CHAR)	No	(null)	3	(null)
4	PHONE	NVARCHAR2(30 CHAR)	No	(null)	4	(null)

데이터 | Model | 제약 조건 | 권한 부여 | 통계 | 트리거 | 플래시백 | 종속성 | 세부정보 | 분할 영역 | 인덱스 | SQL

작업...

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	BOARD_ID	NUMBER(4,0)	No	(null)	1	(null)
2	WRITER	NVARCHAR2(50 CHAR)	No	(null)	2	(null)
3	TITLE	NVARCHAR2(50 CHAR)	No	(null)	3	(null)
4	CONTENT	NVARCHAR2(500 CHAR)	No	(null)	4	(null)
5	BOARD_DATE	TIMESTAMP(6)	Yes	SYSTIM...	5	(null)
6	HIT	NUMBER(4,0)	Yes	0 --조회수	6	(null)

📦 자바 클래스 구성

1️⃣ BoardMethod 클래스

- 회원관리 및 게시판 관련 메소드 포함
- DB 연결, SQL 실행 등 담당

> 전체 코드 보기: BoardMethod.java

```
private Connection conn;
private PreparedStatement pstmt;
private ResultSet rs;

private DataSource ds;

public BoardMethod() {
    try {

        Context context = new InitialContext();
        ds = (DataSource)context.lookup("java:comp/env/jdbc/oracle");

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

2️⃣ MyBoardData 클래스 (DTO)

- 게시판 글 데이터를 담는 객체
- getter/setter 사용

> 전체 코드 보기: MyBoardData.java

```java
package com.myBoard;

import java.sql.Timestamp;

public class MyBoardData
{
    private int boardID;
    private String writer;
    private String title;
    private String content;
    private Timestamp boardDate;
    private int hit;

    public MyBoardData() {

    }

    public MyBoardData(int boardID, String writer, String title, String content, Timestamp boardDate, int hit)
    {
        super();
        this.boardID = boardID;
        this.writer = writer;
        this.title = title;
        this.content = content;
        this.boardDate = boardDate;
        this.hit = hit;
    }

    public int getBoardID() {
        return boardID;
    }

    public void setBoardID(int boardID) {
        this.boardID = boardID;
    }

    public String getWriter() {
        return writer;
    }

    public void setWriter(String writer) {
        this.writer = writer;
    }

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
```

🔐 로그인

loginForm.jsp

- 사용자로부터 ID, PW 입력 받음

```html
<form action="loginFormCheck.jsp" method="post" name="loginForm" id="loginForm">
    <div id="title"><h4>Login</h4></div>
    <div class="input-group">
        <label for="id">ID</label>
        <input type="text" name="id" id="id" required>
    </div>
    <div class="input-group">
        <label for="pw">Password</label>
        <input type="password" name="pw" id="pw" required>
    </div>
    <button type="submit" class="btn login">로그인</button>
    <button type="button" class="btn register" onclick="location.href='joinForm.jsp'">회원가입</button>
</form>
```

loginFormCheck.jsp

- 입력값 검증 후, DB 조회
- 성공 → 세션 등록 + 메인 페이지 이동
- 실패 → `history.back()`

```
<%
request.setCharacterEncoding("UTF-8");

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

System.out.println("id: " + id + ", pw: " + pw);

BoardMethod bm = new BoardMethod(); // BoardMethod 객체 생성
boolean result = bm.loginCheck(id, pw);
System.out.println("로그인 결과: " + result);

if(result) // 로그인 성공
{
    session.setAttribute("userId", id); // 세션에 사용자 ID 저장
%>
    <script>
    alert("환영합니다, <%= id %>님!");
    </script>
<%
    response.sendRedirect("main.jsp");
}
else // 로그인 실패
{
%>
    <script>
    alert("로그인에 실패했습니다. 아이디와 비밀번호를 확인해주세요.");
    history.back(); // 이전 페이지(로그인 페이지)로 돌아가기
    </script>
<%
}
%>
```

👤 회원가입

joinForm.jsp

- 입력값 공백 검사, JS로 유효성 체크

```html
<form action="joinFormCheck.jsp" method="post" id="joinForm" onsubmit="formCheck(event)">
    <h2>회원가입</h2>
    <div class="input-group">
        <label for="id">아이디</label>
        <input type="text" name="id" id="id">
    </div>
    <div class="input-group">
        <label for="pw">비밀번호</label>
        <input type="password" name="pw" id="pw">
    </div>
    <div class="input-group">
        <label for="pw2">비밀번호 확인</label>
        <input type="password" name="pw2" id="pw2">
    </div>
    <div class="input-group">
        <label for="name">이름</label>
        <input type="text" name="name" id="name">
    </div>
    <div class="input-group">
        <label for="number">전화번호</label>
        <input type="text" name="number" id="number">
    </div>
    <button type="submit" class="submit-btn">회원가입 하기</button>
</form>
```

joinFormCheck.jsp

- `BoardMethod.joinMember()` 호출 → DB INSERT

```jsp
<%
request.setCharacterEncoding("UTF-8");

String id = request.getParameter("id");
String pw = request.getParameter("pw");
String name = request.getParameter("name");
String number = request.getParameter("number");

BoardMethod bm =  new BoardMethod();

int result = bm.join(id, pw, name, number);

if(result == 1)
{
    %>
    <script>
        alert("회원가입에 성공하였습니다!");
    </script>
    <%
    response.sendRedirect("loginForm.jsp");
}
else
{
    %>
    <script>
        alert("회원가입에 실패하였습니다.");
        history.back();
    </script>
    <%

}
%>
```

🏠 메인 페이지

구성

- 로그인 사용자 ID 표시
- 로그아웃, 회원정보 수정, 글쓰기 버튼
- 게시글 목록 출력

```jsp
<body>
<%
request.setCharacterEncoding("UTF-8");
BoardMethod bm = new BoardMethod();
String id = (String)session.getAttribute("userId");
%>
<header>
    <h2><span id="userId"><%= id %></span>님 안녕하세요!</h2>
    <div id="headerMenu">
        <button class="headerBtn" onclick="location.href='logout.jsp'">로그아웃</button>
        <button class="headerBtn" onclick="location.href='editMember.jsp'">회원정보 변경</button>
        <button class="headerBtn" onclick="location.href='write.jsp'">글쓰기</button>
    </div>
</header>
<article>
    <table>
        <thead>
            <tr>
                <th class="number">번호</th>
                <th class="title">제목</th>
                <th class="author">작성자</th>
                <th class="date">작성날짜</th>
                <th class="views">조회수</th>
            </tr>
        </thead>
        <tbody>
        <%
            List<MyBoardData> contentList = bm.getContentList();
            SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd HH:mm");

            for(MyBoardData board : contentList) {
        %>
            <tr>
                <td class="number">&lt;%= board.getBoardID() %&gt;</td>
                <td class="title">
                    <a href="viewContent.jsp?boardID=<%=board.getBoardID()%>&action=upHit">
                        <%= board.getTitle() %>
                    </a>
                </td>
                <td class="author">&lt;%= board.getWriter() %&gt;</td>
                <td class="date">&lt;%= sdf.format(board.getBoardDate()) %&gt;</td>
                <td class="views">&lt;%= board.getHit() %&gt;</td>
            </tr>
        <%
            }
        %>
        </tbody>
    </table>
</article>
```

- `getContentList()` 로 게시글 목록 조회
- 반복문으로 테이블 출력

🔓 로그아웃

- 세션 해제 후 loginForm.jsp로 이동

```jsp
<body>
<%
session.removeAttribute("userId");
%>
<script>
alert("로그아웃 되었습니다.");
location.href = "loginForm.jsp";
</script>
```

📝 회원 정보 수정

editMember.jsp

- 기존 정보 value 속성에 바인딩
- `hidden` input 통해 id 전달

```jsp
<%
request.setCharacterEncoding("UTF-8");

BoardMethod bm = new BoardMethod();

String id = (String)session.getAttribute("userId");

String pw = bm.getPw(id);
String name = bm.getName(id);
String phone = bm.getPhone(id);
%>
<div class="form-container">
    <h2>회원정보 수정</h2>
    <form action="editMemberCheck.jsp" method="post" id="editMemberForm">
        <input type="hidden" value="<%= id %>" name="id">

        <div class="form-group">
            <label for="id">아이디:</label>
            <div class="id-display" id="id"><%= id %></div>
        </div>

        <div class="form-group">
            <label for="updateName">이름:</label>
            <input type="text" name="updateName" id="updateName" value="<%= name %>" required>
        </div>

        <div class="form-group">
            <label for="updatePW">비밀번호:</label>
            <input type="password" name="updatePW" id="updatePW" value="<%= pw %>" required>
        </div>

        <div class="form-group">
            <label for="updateNumber">전화번호:</label>
            <input type="text" name="updateNumber" id="updateNumber" value="<%= phone %>" required>
        </div>

        <input type="submit" value="변경하기" class="submit-btn">
    </form>

    <!-- 회원탈퇴 버튼을 별도의 form으로 분리 -->
    <form action="deleteMember.jsp" method="post">
        <input type="hidden" name="id" value="<%= id %>">
        <button type="submit" class="delete-btn">회원탈퇴</button>
    </form>
</div>
</body>
```

editMemberCheck.jsp

```
<%
request.setCharacterEncoding("UTF-8");

String id = (String)session.getAttribute("userId");
String updatePW = request.getParameter("updatePW");
String updateName = request.getParameter("updateName");
String updateNumber = request.getParameter("updateNumber");

BoardMethod bm = new BoardMethod();

int result = bm.updateMemberInfo(updatePW, updateName, updateNumber, id);

if(result == 1)
{
    %>
    <script>
        alert("회원 정보가 변경되었습니다!");
        window.location.href = "loginForm.jsp";
    </script>
    <%
}
else
{
    %>
    <script>
        alert("회원 정보 변경에 실패하였습니다!");
        history.back();
    </script>
    <%
}
%>
```

deleteMember.jsp

```jsp
<body>
<%
String id = request.getParameter("id");

BoardMethod bm = new BoardMethod();


int result = bm.deleteMember(id);
if(result == 1)
{
    %>
    <script>
        alert("회원 탈퇴가 완료되었습니다.");
        location.href="loginForm.jsp";
    </script>
    <%
}
else
{
    %>
    <script>
        alert("오류가 발생하였습니다.");
        history.back();
    </script>
    <%
}
%>
```

📌 **2편에서 이어집니다...**