**[ 13 ] 게시판**

* **페이징 답변글 없는 게시판**
* 게시판 작성 전 Run Configurations에서 IPv4나오도록 셋팅

**borad.sql**

**DROP** **TABLE** BOARD;

**CREATE** **TABLE** BOARD(

NUM NUMBER(5) **PRIMARY** **KEY**,

WRITER VARCHAR2(30) **NOT** **NULL**,

SUBJECT VARCHAR2(50) **NOT** **NULL**,

CONTENT VARCHAR2(4000) **NOT** **NULL**,

EMAIL VARCHAR2(30),

READCOUNT NUMBER(5) **DEFAULT** 0,

PW VARCHAR2(20) **NOT** **NULL**,

REF NUMBER(5) **NOT** **NULL**,

RE\_STEP NUMBER **NOT** **NULL**,

RE\_INDENT NUMBER **NOT** **NULL**,

IP VARCHAR2(20) **NOT** **NULL**,

RDATE **DATE** **DEFAULT** SYSDATE **NOT** **NULL**);

-- 글 갯수

**SELECT** COUNT(\*) **FROM** BOARD;

-- 글목록

**SELECT** \* **FROM** BOARD **ORDER** **BY** NUM **DESC**;

-- 글쓰기

**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD;

**INSERT** **INTO** BOARD (NUM, WRITER, SUBJECT, CONTENT, EMAIL, PW, REF, RE\_STEP, RE\_INDENT, IP) **VALUES**

((**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), '홍','제목','본문',**NULL**, '111',(**SELECT** NVL(MAX(NUM),0)+1 **FROM** BOARD), 0,0,'192.168.0.20');

--글번호로 글 dto 가져오기

**SELECT** \* **FROM** BOARD **WHERE** NUM=1;

--특정글번호 조회수 UP

**UPDATE** BOARD **SET** READCOUNT = READCOUNT+1 **WHERE** NUM=1;

--글 수정하기

**UPDATE** BOARD **SET** WRITER='김',

SUBJECT='SUBJECT',

CONTENT='CONTENT\nCOUNT',

EMAIL = 'E@E.COM',

PW = '111',

IP='127.0.0.1'

**WHERE** NUM=1;

-- 특정글삭제 (PW고려)

**DELETE** **FROM** BOARD **WHERE** NUM=1 **AND** PW='111';

-- 2번글 조회수 조작

**UPDATE** BOARD **SET** READCOUNT = 11 **WHERE** NUM **IN** (2,4);

**COMMIT**;

**SELECT** \* **FROM** BOARD **ORDER** **BY** NUM **DESC**;

**BoardDto.java**

**import** java.sql.Timestamp;

**public** **class** BoardDto {

**private** **int** num;

**private** String writer;

**private** String subject;

**private** String content;

**private** String email;

**private** **int** readcount;

**private** String pw;

**private** **int** ref;

**private** **int** re\_step;

**private** **int** re\_indent;

**private** String ip;

**private** Timestamp rdate;

**//생성자, setter, getter, toString() 추가**

}

**BoardDao.java**

// 글 갯수 가져오는 getBoradTotalCnt()

// 글목록출력할 때 쓸 listBoard()

// 글쓰기 insertBoard(dto)

// 글번호로 글한줄 가져오기 BoardDto getBoardOneLine(int num)

// 글번호로 글한줄 가져오기 BoardDto getBoardOneLine(String num)

// 조회수하나 올리기 readCountUp(int num)

// 조회수하나 올리기 readCountUp(String num)

// 글 수정 updateBoard(dto)

// 글 삭제 deleteBoard(int num, String pwChk)

**package** com.tj.dao;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.sql.Timestamp;

**import** java.util.ArrayList;

**import** javax.naming.Context;

**import** javax.naming.InitialContext;

**import** javax.naming.NamingException;

**import** javax.sql.DataSource;

**import** com.tj.dto.BoardDto;

**public** **class** BoardDao {

**public** **static** **final** **int** ***SUCCESS*** = 1;

**public** **static** **final** **int** ***FAIL*** = 0;

**private** **static** BoardDao *instance* = **new** BoardDao();

**public** **static** BoardDao getInstance() {

**return** *instance*;

}

**private** BoardDao() {}

**private** Connection getConnection() **throws** SQLException {

Connection conn = **null**;

**try** {

Context ctx = **new** InitialContext();

DataSource ds =

(DataSource) ctx.lookup("java:comp/env/jdbc/Oracle11g");

conn = ds.getConnection();

} **catch** (NamingException e) {

System.***out***.println(e.getMessage());

}

**return** conn;

}

// 글갯수 가져오는 getBoardTotalCnt()

**public** **int** getBoardTotalCnt() {

**int** totCnt = 0;

Connection conn = **null**;

Statement stmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT COUNT(\*) FROM BOARD";

**try** {

conn = getConnection();

stmt = conn.createStatement();

rs = stmt.executeQuery(sql);

rs.next();

totCnt = rs.getInt(1);

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(rs !=**null**) rs.close();

**if**(stmt!=**null**) stmt.close();

**if**(conn!=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

**return** totCnt;

}

// 글목록 listBoard()

**public** ArrayList<BoardDto> listBoard(){

ArrayList<BoardDto> dtos = **new** ArrayList<BoardDto>();

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM BOARD ORDER BY REF DESC";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

rs = pstmt.executeQuery();

**while**(rs.next()) {

**int** num = rs.getInt("num");

String writer = rs.getString("writer");

String subject= rs.getString("subject");

String content= rs.getString("content");

String email = rs.getString("email");

**int** readCount = rs.getInt("readCount");

String pw = rs.getString("pw");

**int** ref = rs.getInt("ref");

**int** re\_step = rs.getInt("re\_step");

**int** re\_indent = rs.getInt("re\_indent");

String ip = rs.getString("ip");

Timestamp rDate=rs.getTimestamp("rDate");

dtos.add(**new** BoardDto(num, writer, subject, content, email,

readCount, pw, ref, re\_step, re\_indent, ip, rDate));

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(rs !=**null**) rs.close();

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

**return** dtos;

}

// 글쓰기 insertBoard(dto)

**public** **int** insertBoard(BoardDto dto) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql =

"INSERT INTO BOARD "

+ " (NUM, WRITER, SUBJECT, CONTENT, EMAIL, READCOUNT, PW, "

+ " REF, RE\_STEP, RE\_INDENT, IP, RDATE) "

+ "VALUES ((SELECT NVL(MAX(NUM),0)+1 FROM BOARD), ?, ?, ?, ?, 0, ?, "

+ " (SELECT NVL(MAX(NUM),0)+1 FROM BOARD), 0, 0, ?, SYSDATE)";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, dto.getWriter());

pstmt.setString(2, dto.getSubject());

pstmt.setString(3, dto.getContent());

pstmt.setString(4, dto.getEmail());

pstmt.setString(5, dto.getPw());

pstmt.setString(6, dto.getIp());

pstmt.executeUpdate();

result = ***SUCCESS***;

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

**return** result;

}

// 글번호로 글한줄 가져오기 getBoardOneLine(num)

**public** BoardDto getBoardOneLine(**int** num) {

BoardDto dto = **null**;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM BOARD WHERE NUM=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, num);

rs = pstmt.executeQuery();

**if**(rs.next()) {

String writer = rs.getString("writer");

String subject= rs.getString("subject");

String content= rs.getString("content");

String email = rs.getString("email");

**int** readCount = rs.getInt("readCount");

String pw = rs.getString("pw");

**int** ref = rs.getInt("ref");

**int** re\_step = rs.getInt("re\_step");

**int** re\_indent = rs.getInt("re\_indent");

String ip = rs.getString("ip");

Timestamp rDate=rs.getTimestamp("rDate");

dto = **new** BoardDto(num, writer, subject, content, email,

readCount, pw, ref, re\_step, re\_indent, ip, rDate);

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(rs !=**null**) rs.close();

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

**return** dto;

}

**public** BoardDto getBoardOneLine(String num) {

BoardDto dto = **null**;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

String sql = "SELECT \* FROM BOARD WHERE NUM=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, num);

rs = pstmt.executeQuery();

**if**(rs.next()) {

String writer = rs.getString("writer");

String subject= rs.getString("subject");

String content= rs.getString("content");

String email = rs.getString("email");

**int** readCount = rs.getInt("readCount");

String pw = rs.getString("pw");

**int** ref = rs.getInt("ref");

**int** re\_step = rs.getInt("re\_step");

**int** re\_indent = rs.getInt("re\_indent");

String ip = rs.getString("ip");

Timestamp rDate=rs.getTimestamp("rDate");

dto = **new** BoardDto(Integer.*parseInt*(num),

writer, subject, content, email,

readCount, pw, ref, re\_step, re\_indent, ip, rDate);

}

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(rs !=**null**) rs.close();

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

**return** dto;

}

// 조회수 올리기 readCountUp(num)

**public** **void** readCountUp(**int** num) {

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE BOARD SET READCOUNT = READCOUNT+1 WHERE NUM=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, num);

pstmt.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

}

**public** **void** readCountUp(String num) {

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE BOARD SET READCOUNT = READCOUNT+1 WHERE NUM=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, num);

pstmt.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

}

// 글 수정 updateBoard(dto)

**public** **int** updateBoard(BoardDto dto) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE BOARD SET WRITER=?, "

+ "SUBJECT=?, "

+ "CONTENT=?, "

+ "EMAIL=?, "

+ "PW=?, "

+ "IP=? "

+ " WHERE NUM=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, dto.getWriter());

pstmt.setString(2, dto.getSubject());

pstmt.setString(3, dto.getContent());

pstmt.setString(4, dto.getEmail());

pstmt.setString(5, dto.getPw());

pstmt.setString(6, dto.getIp());

pstmt.setInt(7, dto.getNum());

result = pstmt.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

**return** result;

}

// 글 삭제 deleteBoard(num, pw)

**public** **int** deleteBoard(**int** num, String pw) {

**int** result = ***FAIL***;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "DELETE FROM BOARD WHERE NUM=? AND PW=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, num);

pstmt.setString(2, pw);

result = pstmt.executeUpdate();

} **catch** (Exception e) {

System.***out***.println(e.getMessage());

}**finally** {

**try** {

**if**(pstmt!=**null**) pstmt.close();

**if**(conn !=**null**) conn.close();

} **catch** (Exception e) {System.***out***.println(e.getMessage());}

}

**return** result;

}

}

**boardTest.jsp**

<%@page import=*"java.util.ArrayList"*%>

<%@page import=*"com.tj.dto.BoardDto"*%>

<%@page import=*"com.tj.dao.BoardDao"*%>

<%@ 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=*"../css/style.css"* rel=*"stylesheet"*>

</head>

<body>

<%

BoardDao bDao = BoardDao.getInstance();

out.print("<h2>글갯수 : "+bDao.getBoardTotalCnt()+"</h2>");

BoardDto dto = **new** BoardDto(0, "홍길동", "제목", "본문", **null**, 0, "11",

0, 0, 0, "192.168.10.151", **null**);

**int** result = bDao.insertBoard(dto);

out.print((result == BoardDao.SUCCESS? "글쓰기성공":"글쓰기실패")+"<br>");

result = bDao.insertBoard(dto);

out.print((result == BoardDao.SUCCESS? "글쓰기성공":"글쓰기실패")+"<br>");

ArrayList<BoardDto> dtos = bDao.listBoard();

**for**(**int** i=0 ; i<dtos.size() ; i++){

out.print(dtos.get(i).toString()+"<br>");

}

dto.setNum(1);

dto.setContent("xxxxxx"); dto.setWriter("xxxxxx"); dto.setSubject("xxxx");

result = bDao.updateBoard(dto);

out.println((result==BoardDao.SUCCESS? "수정 성공":"글수정실패")+"<br>");

out.println(bDao.getBoardOneLine(1));

result = bDao.deleteBoard(2, "11");

out.print((result==BoardDao.FAIL? "비번틀려못지워":"삭제성공"));

out.print("<hr><h2>마지막으로 전부 뿌리기</h2>");

dtos = bDao.listBoard();

**for**(**int** i=0 ; i<dtos.size() ; i++){

out.print(dtos.get(i).toString()+"<br>");

}

%>

<hr><a href=*"a.jsp"*>404 테스트</a>

</body>

</html>

**error404.jsp**

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

pageEncoding=*"UTF-8"*%>

<%String conPath=request.getContextPath(); %>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

<link href=*"*<%=conPath %>*/css/style.css"* rel=*"stylesheet"*>

</head>

<body>

<h2>본 기능은 공사중입니다. 곧 마무리 됩니다.</h2>

<h3>404예외</h3>

</body>

</html>

**web.xml**

<error-page>

<error-code>404</error-code>

<location>/error/error404.jsp</location>

</error-page>

**style.css**

@CHARSET *"UTF-8"*;

**body** {

background-color: *#fff0B5*;

font-size: *12px*;

}

**table** {border: *2px* *solid* *pink*; width:*95%*; margin: *10px* *auto*;}

**table** **tr** { background-color: *#FFE271*; }

**table** **tr***:hover* { background-color: *orange*;

cursor: *pointer*;

}

**td,** **th** {text-align: *center*; padding:*5px*; }

**caption** {font-size: *25px*; padding:*10px*;}

**h2**{text-align: *center*; color:*red*;}

**a** { text-decoration: *none*; color:*black*}

*.left*{text-align: *left*;}

*.paging* {text-align: *center*;}

**input***:not*(*.btn*)**,** **textarea** {

width: *90%*;

}

**list.jsp**

<%@page import=*"com.tj.dto.BoardDto"*%>

<%@page import=*"java.util.ArrayList"*%>

<%@page import=*"com.tj.dao.BoardDao"*%>

<%@ 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=*"../css/style.css"* rel=*"stylesheet"*>

</head>

<body>

<table>

<caption>게시판</caption>

<tr><td><a href=*"writeForm.jsp"*>글쓰기</a></td></tr>

</table>

<table>

<tr><th>글번호</th><th>작성자</th><th>제목</th><th>메일</th>

<th>IP</th><th>작성일</th><th>조회수</th>

</tr>

<%

BoardDao bDao = BoardDao.getInstance();

**int** totCnt = bDao.getBoardTotalCnt(); // 글갯수

**if**(totCnt==0){

out.print("<tr><td colspan='7'>글이 없습니다</td></tr>");

}**else**{

ArrayList<BoardDto> dtos = bDao.listBoard();

**for**(BoardDto d : dtos){

out.print("<tr><td>"+d.getNum()+"</td><td>"+d.getWriter()+"</td>");

out.print("<td class='left'>");

**if**(d.getReadCount()>10){

out.print("<img src='../img/hot.gif'>");

}

out.print("<a href='content.jsp?num="+d.getNum()+"'>"

+d.getSubject()+"</a></td>");

out.print("<td>"+(d.getEmail()==null? "": d.getEmail())+"</td><td>"+d.getIp()+"</td>");

out.print("<td>"+d.getrDate()+"</td><td>"+d.getReadCount()+"</td></tr>");

}

}

%>

</table>

</body>

</html>

**writerForm.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>

<link href=*"../css/style.css"* rel=*"stylesheet"*>

</head>

<body>

<form action=*"writePro.jsp"* method=*"post"*>

<table>

<caption>게시판글쓰기</caption>

<tr><th>제목</th>

<td><input type=*"text"* name=*"subject"* required=*"required"*

autofocus=*"autofocus"*></td>

</tr>

<tr><th>작성자</th>

<td><input type=*"text"* name=*"writer"* required=*"required"*></td>

</tr>

<tr><th>이메일</th>

<td><input type=*"email"* name=*"email"*></td>

</tr>

<tr><th>본문내용</th>

<td><textarea rows=*"10"* cols=*"32"* name=*"content"*

required=*"required"*></textarea></td>

</tr>

<tr><th>비밀번호</th>

<td><input type=*"password"* name=*"pw"* required=*"required"*></td>

</tr>

<tr><td colspan=*"2"*>

<input type=*"submit"* value=*"글쓰기"* class=*"btn"*>

<input type=*"reset"* value=*"다시쓰기"* class=*"btn"*> <input type=*"button"* value=*"목록"* onclick="location='list.jsp'" class=*"btn"*>

</td>

</tr>

</table>

</form>

</body>

</html>

**writerPro.jsp**

<%@page import=*"com.tj.dao.BoardDao"*%>

<%@page import=*"com.tj.dto.BoardDto"*%>

<%@ 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>

<% request.setCharacterEncoding("utf-8"); %>

<jsp:useBean id=*"dto"* class=*"com.tj.dto.BoardDto"*/>

<jsp:setProperty name=*"dto"* property=*"\*"*/>

<%

dto.setIp(request.getRemoteAddr());

BoardDao bDao = BoardDao.getInstance();

**int** result = bDao.insertBoard(dto);

**if**(result == BoardDao.SUCCESS){

%>

<script>

alert('글쓰기 완료');

location.href = 'list.jsp';

</script>

<%}**else** **if**(result == BoardDao.FAIL){%>

<script>

alert('글쓰기 실패');

history.back();

</script>

<%}%>

</body>

</html>

**content.jsp**

<%@page import=*"com.tj.dto.BoardDto, com.tj.dao.BoardDao"*%>

<%@ 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=*"../css/style.css"* rel=*"stylesheet"*>

</head>

<body>

<%

BoardDao bDao = BoardDao.getInstance();

/\* int iNum = Integer.parseInt(request.getParameter("num"));

BoardDto dto = bDao.getBoardOneLine(iNum);

bDao.readCountUp(iNum); \*/

String num = request.getParameter("num");

BoardDto dto = bDao.getBoardOneLine(num);

bDao.readCountUp(num);

%>

<table>

<caption>게시판</caption>

<tr><th>글번호</th><td><%=dto.getNum() %></td></tr>

<tr><th>제목</th><td><%=dto.getSubject() %></td></tr>

<tr><th>작성자</th><td><%=dto.getWriter() %></td></tr>

<tr><th>이메일</th><td><%=dto.getEmail()==**null**? "-":dto.getEmail() %></td></tr>

<tr><th>본문내용</th><td><pre><%=dto.getContent() %></pre></td></tr>

<tr><th>작성일</th><td><%=dto.getRdate() %></td></tr>

<tr><th>조회수</th><td><%=dto.getreadCount() %></td></tr>

<tr><th>IP</th><td><%=dto.getIp() %></td></tr>

<tr><td colspan=*"2"*>

<button onclick="location.href='list.jsp'">목록</button>

<button onclick=*"location.href='updateForm.jsp?num=*<%=num%>*'"*>수정</button>

<button onclick=*"location.href='deleteForm.jsp?num=*<%=num%>*'"*>삭제</button>

<button onclick=*"location.href='writeForm.jsp?num=*<%=num%>*'"*>답변</button>

</td>

</tr>

</table>

</body>

</html>

**updateForm.jsp**

<%@page import=*"com.tj.dao.BoardDao"*%>

<%@page import=*"com.tj.dto.BoardDto"*%>

<%@ 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=*"../css/style.css"* rel=*"stylesheet"*>

</head>

<body>

<%

**int** num = Integer.parseInt(request.getParameter("num"));

BoardDao bDao = BoardDao.getInstance();

BoardDto dto = bDao.getBoardOneLine(num);

%>

<form action=*"updatePro.jsp"* method=*"post"*>

<input type=*"hidden"* name=*"num"* value=*"*<%=num%>*"*>

<table>

<caption>글 수정하기</caption>

<tr><th>글번호</th>

<td><%=num %></td>

</tr>

<tr><th>제목</th>

<td><input type=*"text"* name=*"subject"* size=*"30"* required=*"required"* autofocus=*"autofocus"* value=*"*<%

**if**(dto!=**null**) out.print(dto.getSubject());

%>*"*></td>

</tr>

<tr><th>작성자</th>

<td><input type=*"text"* name=*"writer"* size=*"30"* required=*"required"* value=*"*<%=dto.getWriter()%>*"*></td>

</tr>

<tr><th>이메일</th>

<td><input type=*"email"* name=*"email"* size=*"30"*

value=*"*<%=dto.getEmail()%>*"*></td>

</tr>

<tr><th>본문내용</th>

<td><textarea rows=*"10"* cols=*"32"* name=*"content"*

required=*"required"*><%=dto.getContent() %></textarea></td>

</tr>

<tr><th>비밀번호</th>

<td><input type=*"password"* name=*"pw"* size=*"30"* required=*"required"*

value=*"*<%=dto.getPw()%>*"*></td>

</tr>

<tr><td colspan=*"2"*>

<input type=*"submit"* value=*"수정하기"*>

<input type=*"reset"* value=*"수정취소"* onclick="history.back()">

<input type=*"button"* value=*"목록"* onclick="location='list.jsp'">

</td>

</tr>

</table>

</form>

</body>

</html>

**updatePro.jsp**

<%@page import=*"com.tj.dao.BoardDao"*%>

<%@ 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>

<% request.setCharacterEncoding("utf-8"); %>

<jsp:useBean id=*"dto"* class=*"com.tj.dto.BoardDto"*/>

<jsp:setProperty name=*"dto"* property=*"\*"*/>

<%

dto.setIp(request.getRemoteAddr());

BoardDao boardDao = BoardDao.getInstance();

**int** result = boardDao.updateBoard(dto);

**if**(result == BoardDao.SUCCESS){

%>

<script>

alert('수정 성공');

location.href='list.jsp';

</script>

<%}**else** **if**(result == BoardDao.FAIL){%>

<script>

alert('수정 실패');

history.go(-1);

</script>

<%} %>

</body>

</html>

**deleteForm.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>

<link href=*"../css/style.css"* rel=*"stylesheet"*>

</head>

<body>

<%

String num = request.getParameter("num");

%>

<table>

<caption>글삭제</caption>

<tr><td>

<fieldset>

<legend>삭제를 위한 암호가 일치하여야 합니다</legend>

<form action=*"deletePro.jsp"* method=*"post"*>

<input type=*"hidden"* name=*"num"* value=*"*<%=num%>*"*>

<p>암호 <input type=*"password"* name=*"pw"* required=*"required"*></p>

<p><input type=*"submit"* value=*"글삭제"*>

<input type=*"reset"* value=*"삭제취소"* onclick="history.back()"></p>

</form>

</fieldset>

</td></tr>

</table>

</body>

</html>

**deletePro.jsp**

<%@page import=*"com.tj.dao.BoardDao"*%>

<%@ 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>

<%

**int** num = Integer.parseInt(request.getParameter("num"));

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

BoardDao bDao = BoardDao.getInstance();

**int** result = bDao.deleteBoard(num, pw);

**if**(result==BoardDao.SUCCESS){

%>

<script>

alert('삭제 성공');

location.href='list.jsp';

</script>

<%}**else**{%>

<script>

alert('삭제 실패');

history.back();

</script>

<%} %>

</body>

</html>

**index.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>

<% response.sendRedirect("board/list.jsp"); %>

</body>

</html>

4. 글목록

list.jsp

10. 글삭제폼

deleteForm.jsp

8. 글수정폼

updateForm.jsp

9. 글수정처리

updatePro.jsp

11. 글삭제처리

deletePro.jsp

6. 글쓰기처리

writePro.jsp

5. 글쓰기폼

writeForm.jsp

7. 글내용보기

content.jsp

2. DAO

BoardDao

1. DTO

BoardDto

3. 에러페이지error404