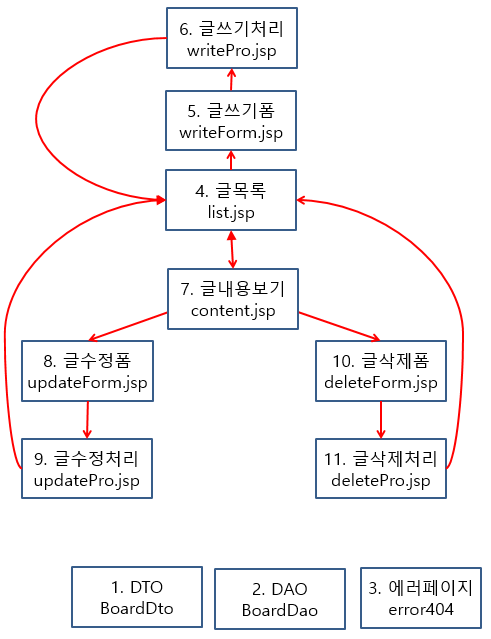
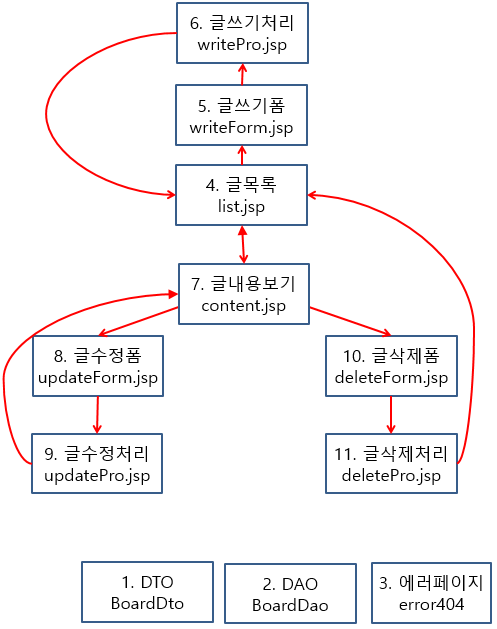
**[ 12 ] 게시판**

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

**borad.sql**

-- DROP & CREATE TABLE, SEQUENCE

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

**DROP** SEQUENCE BOARD\_SEQ;

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

bID NUMBER(6) **PRIMARY** **KEY**, -- 글번호

bNAME VARCHAR2(50) **NOT** **NULL**, -- 글쓴이

bTITLE VARCHAR2(50) **NOT** **NULL**, -- 글제목

bCONTENT VARCHAR2(1000), -- 글본문

bEMAIL VARCHAR2(50), -- 메일주소

bHIT NUMBER(6) **DEFAULT** 0, -- 글 조회수

bPW VARCHAR2(50) **NOT** **NULL**,-- 글 삭제시 쓸 비번

bGROUP NUMBER(6) **NOT** **NULL**, -- 글그룹(원글의 경우 글번호로/답변글일경우 원글의 BGROUP로)

bSTEP NUMBER(2) **NOT** **NULL**, -- 글그룹내 출력 순서(원글 0)

bINDENT NUMBER(3) **NOT** **NULL**, -- 글 LIST 출력시 글 제목 들여쓰기 정도(원글0)

bIP VARCHAR2(50) **NOT** **NULL**, -- 글 쓴 컴퓨터의 IP

bDATE **DATE** **DEFAULT** SYSDATE **NOT** **NULL** -- 글 작성시점

);

**CREATE** SEQUENCE BOARD\_SEQ MAXVALUE 999999 NOCACHE NOCYCLE;

**SELECT** \* **FROM** BOARD;

-- DUMMY DATA

**INSERT** **INTO** BOARD (BID, bNAME, bTITLE, BCONTENT, bEMAIL, bPW, BGROUP, bSTEP, BINDENT, BIP)

**VALUES** (BOARD\_SEQ.NEXTVAL, '홍', '제목1', '냉무', **NULL**, '111', BOARD\_SEQ.CURRVAL, 0,0, '192.1.1.1');

**INSERT** **INTO** BOARD (BID, bNAME, bTITLE, BCONTENT, bEMAIL, bPW, BGROUP, bSTEP, BINDENT, BIP)

**VALUES** (BOARD\_SEQ.NEXTVAL, '김', '제목2', **NULL**, **NULL**, '111', BOARD\_SEQ.CURRVAL, 0,0, '192.1.1.1');

**SELECT** \* **FROM** BOARD;

-- 2번글의 답글

-- INSERT INTO BOARD (BID, bNAME, bTITLE, BCONTENT, bEMAIL, bPW, BGROUP, bSTEP, BINDENT, BIP)

-- VALUES (BOARD\_SEQ.NEXTVAL, '이', '2번글답', NULL, NULL, '111', 2, 1, 1, '192.1.1.1');

**UPDATE** BOARD **SET** BHIT=11 **WHERE** BID=2;

-- SELECT \* FROM BOARD ORDER BY BGROUP DESC, BSTEP ; -- 글 다 보기

-- DAO에 들어갈 QUERY

-- 1. 글목록 (글그룹이 최신인 글이 위로)

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

-- 2. 전체 글갯수

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

-- 3. 원글쓰기(원글쓰기) - 글쓴이, 글제목, 글본문, 이메일, PW, bip

**INSERT** **INTO** BOARD (BID, bNAME, bTITLE, BCONTENT, bEMAIL, bPW, BGROUP, bSTEP, BINDENT, BIP)

**VALUES** (BOARD\_SEQ.NEXTVAL, '홍길동', '제목3', '본문\n방가', **NULL**, '111', BOARD\_SEQ.CURRVAL, 0,0, '192.168.0.1');

-- 4. bID로 조회수 1 올리기

**UPDATE** BOARD **SET** BHIT = BHIT+1 **WHERE** BID=1;

-- 5. bID로 DTO가져오기 (글상세보기) -- 조회수 올리고 dto가져오기

-- 6. bID로 DTO가져오기 (글수정VIEW, 답변글VIEW) -- dto 가져오기

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

-- 7. 글 수정 (bid의 작성자, 글제목, 글본문, 이메일, 비밀번호, bip 수정)

**UPDATE** BOARD

**SET** BNAME = '홍길숙',

BTITLE = '수정제목',

BCONTENT = '수정본문',

BEMAIL = 'H@HONG.COM',

BPW = '111',

BIP = '127.0.0.1'

**WHERE** BID=1;

-- 8. 글삭제(비밀번호를 맞게 입력한 경우만 삭제)

**COMMIT**;

**DELETE** **FROM** BOARD **WHERE** BID=1 **AND** BPW='111';

ROLLBACK;

**BoardDto.java**

**import** java.sql.Timestamp;

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

**private** **int** bid;

**private** String bname;

**private** String btitle;

**private** String bcontent;

**private** String bemail;

**private** **int** bhit;

**private** String bpw;

**private** **int** bgroup;

**private** **int** bstep;

**private** **int** bindent;

**private** String bip;

**private** Timestamp bdate;

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

}

**BoardDao.java**

**package** com.lec.ex.dao;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**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.lec.ex.dto.BoardDto;

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

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

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

// 싱글톤

**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;

}

// 1. 글목록

**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 BGROUP DESC";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

rs = pstmt.executeQuery();

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

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

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

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

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

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

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

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

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

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

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

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

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

dtos.add(**new** BoardDto(bid, bname, btitle, bcontent, bemail, bhit, bpw, bgroup, bstep, bindent, bip, bdate));

}

} **catch** (SQLException e) {

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

}**finally** {

**try** {

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

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

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

}**catch** (SQLException e) {

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

}

}

**return** dtos;

}

// 2. 전체 글 갯수

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

**int** totalCnt = 0;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

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

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

rs = pstmt.executeQuery();

rs.next();

totalCnt = rs.getInt("cnt"); // 1열의 데이터를 int값으로 받아옴

} **catch** (SQLException e) {

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

}**finally** {

**try** {

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

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

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

}**catch** (SQLException e) {

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

}

}

**return** totalCnt;

}

// 3. 원글쓰기(원글쓰기) - 글쓴이, 글제목, 글본문, 이메일, PW

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

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

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "INSERT INTO BOARD (BID, bNAME, bTITLE, BCONTENT, bEMAIL, bPW, BGROUP, bSTEP, BINDENT, BIP)" +

" VALUES (BOARD\_SEQ.NEXTVAL, ?, ?, ?, ?, ?, BOARD\_SEQ.CURRVAL, 0,0, ?)";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

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

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

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

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

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

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

pstmt.executeUpdate();

result = ***SUCCESS***;

System.***out***.println("원글쓰기 성공");

} **catch** (SQLException e) {

System.***out***.println(e.getMessage() + " 원글쓰다 예외 발생 :"+dto);

} **finally** {

**try** {

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

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

} **catch** (SQLException e) {

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

}

}

**return** result;

}

// 4. bID로 조회수 1 올리기

**private** **void** hitUp(**int** bid) {

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE BOARD SET BHIT = BHIT+1 WHERE BID=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, bid);

pstmt.executeUpdate();

} **catch** (SQLException e) {

System.***out***.println(e.getMessage() + " 조회수 up 실패");

} **finally** {

**try** {

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

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

} **catch** (SQLException e) {

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

}

}

}

**private** **void** hitUp(String bidStr) {

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE BOARD SET BHIT = BHIT+1 WHERE BID=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, bidStr);

pstmt.executeUpdate();

} **catch** (SQLException e) {

System.***out***.println(e.getMessage() + " 조회수 up 실패");

} **finally** {

**try** {

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

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

} **catch** (SQLException e) {

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

}

}

}

// 5. bID로 DTO가져오기 (글상세보기) -- 조회수 올리고 dto가져오기

**public** BoardDto getContent(**int** bid) {

BoardDto dto = **null**;

hitUp(bid); // 글 상세보기 시 조회수 1 올리기

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

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

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, bid);

rs = pstmt.executeQuery();

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

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

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

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

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

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

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

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

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

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

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

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

dto = **new** BoardDto(bid, bname, btitle, bcontent, bemail, bhit, bpw, bgroup, bstep, bindent, bip, bdate);

}

} **catch** (SQLException e) {

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

}**finally** {

**try** {

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

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

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

}**catch** (SQLException e) {

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

}

}

**return** dto;

}

**public** BoardDto getContent(String bidStr) {

BoardDto dto = **null**;

hitUp(bidStr); // 글 상세보기 시 조회수 1 올리기

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

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

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setString(1, bidStr);

rs = pstmt.executeQuery();

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

//int bid = rs.getInt("bid");

**int** bid = Integer.*parseInt*(bidStr);

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

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

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

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

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

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

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

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

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

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

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

dto = **new** BoardDto(bid, bname, btitle, bcontent, bemail, bhit, bpw, bgroup, bstep, bindent, bip, bdate);

}

} **catch** (SQLException e) {

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

}**finally** {

**try** {

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

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

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

}**catch** (SQLException e) {

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

}

}

**return** dto;

}

// 6. bID로 DTO가져오기 (글수정form, 답변글form) -- dto 가져오기

**public** BoardDto modifyForm\_replyForm(**int** bid) {

BoardDto dto = **null**;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

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

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, bid);

rs = pstmt.executeQuery();

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

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

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

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

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

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

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

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

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

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

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

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

dto = **new** BoardDto(bid, bname, btitle, bcontent, bemail, bhit, bpw, bgroup, bstep, bindent, bip, bdate);

}

} **catch** (SQLException e) {

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

}**finally** {

**try** {

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

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

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

}**catch** (SQLException e) {

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

}

}

**return** dto;

}

// 7. 글 수정 (bid의 작성자, 글제목, 글본문, 이메일, 비밀번호, bip 수정)

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

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

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "UPDATE BOARD " +

" SET BNAME = ?," +

" BTITLE = ?," +

" BCONTENT = ?," +

" BEMAIL = ?," +

" BPW = ?," +

" BIP = ?" +

" WHERE BID=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

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

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

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

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

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

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

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

pstmt.executeUpdate();

result = ***SUCCESS***;

System.***out***.println(result == ***SUCCESS*** ? "글수정 성공":"글번호(bid) 오류");

} **catch** (SQLException e) {

System.***out***.println(e.getMessage() + " 글수정실패 :"+dto);

} **finally** {

**try** {

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

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

} **catch** (SQLException e) {

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

}

}

**return** result;

}

// 8. 글삭제(비밀번호를 맞게 입력한 경우만 삭제)

**public** **int** deleteBoard(**int** bid, String bpw) {

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

Connection conn = **null**;

PreparedStatement pstmt = **null**;

String sql = "DELETE FROM BOARD WHERE BID=? AND BPW=?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, bid);

pstmt.setString(2, bpw);

result = pstmt.executeUpdate();

System.***out***.println(result==***SUCCESS***? "글 삭제 완료":"글 삭제 실패(비번확인)");

} **catch** (SQLException e) {

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

} **finally** {

**try** {

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

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

} **catch** (SQLException e) {

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

}

}

**return** result;

}

}

**daoErrorPageTest.jsp**

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

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

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

<%@ 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"* type=*"text/css"*>

</head>

<body>

<a href=*"xx.jsp"*>에러 페이지 될까?</a>

<%

BoardDao bDao = BoardDao.getInstance();

out.println("<h3>1. 글목록 </h3>");

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

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

out.println(dto + "<br>");

}

out.println("<h3>2. 글갯수 : " + bDao.getBoardTotalCnt() + "</h3>");

out.println("<h3>3. 원글쓰기</h3>");

BoardDto dto = **new** BoardDto(0, "김구", "제목","본문", **null**, 0, "111",

0, 0, 0, "127.0.0.1", **null**);

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

out.println(result == BoardDao.SUCCESS ? "글쓰기 성공":"글쓰기실패");

out.println("<h3>4와 5. 조회수올리고 글번호로 dto가져오기</h3>");

dto = bDao.getContent(3);

out.print("3번글 상세보기 : " + dto + "<br>");

out.println("<h3>6. 글수정 </h3>");

dto.setBtitle("제목 바꿈");

dto.setBcontent("본문바꿈\n본문바꿈\n본문바꿈");

dto.setBname("바꾼자");

result = bDao.modifyBoard(dto);

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

out.print("글 수정 완료 후 3번글 : " + bDao.getContent(3));

}**else**{

out.println("수정 실패. 오타찾아");

}

out.println("<h3>7. 4번글 삭제 </h3>");

result = bDao.deleteBoard(4, "1");

out.println(result == BoardDao.SUCCESS? "4번글 삭제성공<br>":"6번글 삭제 실패(비번)<br>");

result = bDao.deleteBoard(4, "111");

out.println(result == BoardDao.SUCCESS? "4번글 삭제성공<br>":"6번글 삭제 실패(비번)<br>");

%>

</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"* type=*"text/css"*>

</head>

<body>

<h2>공사중입니다(404)</h2>

</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: *9pt*;

}

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

**table** **tr** { background-color: *#FFE271*; height: *40px*;}

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

cursor: *pointer*;

}

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

**caption** {font-size: *20px*; padding:*10px*;}

**h2,** **b**{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%*;

}

**index.jsp**

<body>

<jsp:forward page=*"board/list.jsp"*/>

</body>

**list.jsp**

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

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

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

<%@ 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"* type=*"text/css"*>

</head>

<body>

<table>

<caption>게시판</caption>

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

</table>

<table>

<tr><th>글번호</th><th>작성자</th><th>글제목</th><th>메일</th><th>조회수</th></tr>

<%

BoardDao bDao = BoardDao.getInstance();

**int** totalCnt = bDao.getBoardTotalCnt();

**if**(totalCnt == 0){

out.println("<tr><td colspan='5'>등록된 글이 없습니다</td></tr>");

}**else**{

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

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

// 글번호

out.println("<tr><td>"+dto.getBid() + "</td>");

// 작성자

out.println("<td>" + dto.getBname() + "</td>");

// 글제목(조회수가 10 이상이면 hot 이미지와 같이 제목 출력, 글제목 클릭시 상세보기페이지로)

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

**if**(dto.getBhit() > 10){

out.println("<img src='"+conPath+"/img/hot.gif'>");

}

out.println("<a href='"+conPath + "/board/content.jsp?bid="+ dto.getBid() +"'>"

+ dto.getBtitle()+"</a>");

out.println("</td>");

//메일

String email = dto.getBemail();

out.println("<td>" + (email==**null**? "-":email) + "</td>");

//조회수

out.println("<td>"+dto.getBhit()+"</td></tr>");

}

}

%>

</table>

</body>

</html>

**writerForm.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"* type=*"text/css"*>

</head>

<body>

<form action=*"*<%=conPath %>*/board/writePro.jsp"* method=*"post"*>

<table>

<caption>글작성</caption>

<tr>

<th>작성자</th>

<td>

<input type=*"text"* name=*"bname"* required=*"required"*

autofocus=*"autofocus"*>

</td>

</tr>

<tr>

<th>글제목</th>

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

</tr>

<tr>

<th>본문</th>

<td>

<textarea rows=*"5"* cols=*"10"* name=*"bcontent"*></textarea>

</td>

</tr>

<tr>

<th>이메일</th>

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

</tr>

<tr>

<th>비밀번호</th>

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

</tr>

<tr>

<td colspan=*"2"*>

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

<input type=*"reset"* value=*"취소"* class=*"btn"*>

<input type=*"button"* value=*"목록"* class=*"btn"*

onclick=*"location.href='*<%=conPath%>*/board/list.jsp'"*>

</td>

</tr>

</table>

</form>

</body>

</html>

**writerPro.jsp**

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

<%@ 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>

</head>

<body>

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

<jsp:useBean id=*"dto"* class=*"com.lec.ex.dto.BoardDto"* scope=*"page"*/>

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

<%

dto.setBip(request.getRemoteAddr());// 클라이언트가 요청한 컴퓨터 ip

//dto.setRdate(new Timestamp(System.currentTimeMillis())); // 요청이 들어온 시점

BoardDao bDao = BoardDao.getInstance();

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

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

%> <script>

alert('글쓰기 완료');

location.href = '<%=conPath%>/board/list.jsp';

</script>

<%}**else**{%>

<script>

alert('글쓰기 실패(길어)');

history.back();

</script>

<%}%>

</body>

</html>

**content.jsp**

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

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

<%@ 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"* type=*"text/css"*>

</head>

<body>

<%

String bid = request.getParameter("bid"); // null 이거나 "3"

BoardDao bDao = BoardDao.getInstance();

BoardDto dto = bDao.getContent(bid); // 조회수 올리고 dto가져오기

**if**(dto==**null**){

response.sendRedirect(conPath+"/board/list.jsp");

}**else**{

%>

<table>

<caption><%=bid %>번 글 상세보기</caption>

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

<tr><th>글제목</th><td><%=dto.getBtitle() %></td></tr>

<tr>

<th>본문</th>

<td><pre><%=dto.getBcontent() %></pre></td>

</tr>

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

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

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

<tr><th>작성</th><td><%=dto.getBdate() %></td></tr>

<tr>

<td colspan=*"2"*>

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

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

<button>답변</button>

<button onclick=*"location.href='*<%=conPath%>*/board/list.jsp'"*>목록</button>

</td>

</tr>

</table>

<%}%>

</body>

</html>

**updateForm.jsp**

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

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

<%@ 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"* type=*"text/css"*>

</head>

<body>

<%

**int** bid = Integer.parseInt(request.getParameter("bid")); // null 이거나 "3"

BoardDao bDao = BoardDao.getInstance();

BoardDto dto = bDao.modifyForm\_replyForm(bid); // 조회수 올리고 dto가져오기

%>

<form action=*"*<%=conPath %>*/board/updatePro.jsp"* method=*"post"*>

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

<table>

<caption><%=bid %>번 글 수정</caption>

<tr>

<th>작성자</th>

<td>

<input type=*"text"* name=*"bname"* required=*"required"* value=*"*<%=dto.getBname() %>*"*

autofocus=*"autofocus"*>

</td>

</tr>

<tr>

<th>글제목</th>

<td><input type=*"text"* name=*"btitle"* required=*"required"* value=*"*<%=dto.getBtitle()%>*"*></td>

</tr>

<tr>

<th>본문</th>

<td>

<textarea rows=*"5"* cols=*"10"* name=*"bcontent"*><%=dto.getBcontent() %></textarea>

</td>

</tr>

<tr>

<th>이메일</th>

<td>

<input type=*"email"* name=*"bemail"* value=*"*<%

String email = dto.getBemail();

**if**(email!=**null**){

out.println(email);

}

%>*"*>

</td>

</tr>

<tr>

<th>비밀번호</th>

<td><input type=*"password"* name=*"bpw"* required=*"required"* value=*"*<%=dto.getBpw()%>*"*></td>

</tr>

<tr>

<td colspan=*"2"*>

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

<input type=*"reset"* value=*"취소"* class=*"btn"* onclick="history.back()">

<input type=*"button"* value=*"목록"* class=*"btn"*

onclick=*"location.href='*<%=conPath%>*/board/list.jsp'"*>

</td>

</tr>

</table>

</form>

</body>

</html>

**updatePro.jsp**

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

<%@ 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>

</head>

<body>

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

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

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

<!--

들어온 파라미터 : num, writer(필요 X), subject, content, email, pw

dao의 updateBoard() 호출을 위해서 ip가 추가적으로 필요

-->

<%

dto.setBip(request.getRemoteAddr()); // client의 ip로 셋팅

// out.println(dto);

BoardDao bDao = BoardDao.getInstance();

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

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

%>

<script>

alert('글 수정 성공');

// location.href = '<%=conPath%>/board/list.jsp';

location.href = '<%=conPath%>/board/content.jsp?bid=<%=dto.getBid()%>';

</script>

<%}**else**{%>

<script>

alert('글 수정 실패(길어)');

history.go(-1);

</script>

<%}%>

</body>

</html>

**deleteForm.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"* type=*"text/css"*>

</head>

<body>

<% String bid = request.getParameter("bid"); %>

<table>

<caption><%=bid %>번 글 삭제</caption>

<tr>

<td>

<fieldset>

<legend>삭제를 위한 암호</legend>

<form action=*"*<%=conPath%>*/board/deletePro.jsp"* method=*"post"*>

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

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

autofocus=*"autofocus"* class=*"btn"*></p>

<p>

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

<input type=*"button"* value=*"삭제취소"* class=*"btn"* onclick="history.back()">

</p>

</form>

</fieldset>

</td>

</tr>

</table>

</body>

</html>

**deletePro.jsp**

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

<%@ 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>

</head>

<body>

<%

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

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

BoardDao bDao = BoardDao.getInstance();

**int** result = bDao.deleteBoard(bid, bpw);

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

%>

<script>

alert('<%=bid%>번 글 삭제 완료');

location.href = '<%=conPath%>/board/list.jsp';

</script>

<%}**else**{%>

<script>

alert('<%=bid%>번 글 삭제 실패. 비밀번호를 확인하세요');

history.back();

</script>

<%}%>

</body>

</html>