1. 답변글 달기 로직 리뷰

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| num | 제목 | ref | re\_step | re\_level |  | 1. ref - 답변글이 아니면 num과 같고, |
| 1 | 글1 | 1 | 0 | 0 | 답변글이면 원글의 ref와 같다 |
| 2 | 글2 | 2 | 0 | 0 | 2. re\_step은 답변글이 아니면 0 |
| 3 | 글3 | 3 | 0 | 0 | 답변글이면 다음과 같이 진행한다 |
| 4 | 글1-1 | 1 | 0+1 | 1 | ⓐ ref가 같고 원글보다 re\_step가 |
| 5 | 글2-1 | 2 | 0+1+1+1+1 | 1 | 큰 값이 있으면 그 글의 re\_step을 re\_step+1 |
| 6 | 글3-1 | 3 | 0+1+1 | 1 | ⓑ 답변글 re\_step = 원글 re\_step + 1 |
| 7 | 글2-2 | 2 | 0+1+1+1 | 1 | 3. re\_level - 답변글이 아니면 0 |
| 8 | 글2-3 | 2 | 0+1 | 1 | 답변글이면 원글의 re\_level+1 |
| 9 | 글2-3-1 | 2 | 0+1+1 | 2 | 4. num은 1씩 증가 |
| 10 | 글3-2 | 3 | 0+1 | 1 |  |

List.jsp를 조정하여 아래와 같이 출력(SELECT \* FROM board ORDER BY ref DESC, re\_step ASC;)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| num | 제목 | ref | re\_step | re\_level |
| 3 | 글 3 | 3 | 0 | 0 |
| 10 | 글 3-2 | 3 | 0+1 | 1 |
| 6 | 글 3-1 | 3 | 0+1+1 | 1 |
| 2 | 글 2 | 2 | 0 | 0 |
| 8 | 글 2-3 | 2 | 0+1 | 1 |
| 9 | 글 2-3-1 | 2 | 0+1+1 | 2 |
| 7 | 글 2-2 | 2 | 0+1+1+1 | 1 |
| 5 | 글 2-1 | 2 | 0+1+1+1+1 | 1 |
| 1 | 글 1 | 1 | 0 | 0 |
| 4 | 글 1-1 | 1 | 0+1 | 1 |

1. content.jsp

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

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Insert title here</title>

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

</head>

<body>

<%

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

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

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

BoardDao boardDao = BoardDao.getInstance();

boardDao.readCountUp(num); // 조회수 하나 증가

BoardDto dto = boardDao.getBoardOneLine(num);

%>

<table>

<caption>글 상세보기</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>메일</th>

<td><%**if**(dto.getEmail()!=**null**)

out.print(dto.getEmail());

%></td>

</tr>

<tr><th>본문</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?pageNum=*<%=pageNum%>*'"*>목록</button>

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

글수정</button>

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

글삭제</button>

**<button**

**onclick=*"location='writeForm.jsp?num=*<%=num %>*&pageNum=*<%=pageNum%>*'"***

**>답변</button>**

</td>

</tr>

</table>

</body>

</html>

1. writeForm.jsp

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

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Insert title here</title>

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

</head>

<body>

**<% int num = 0, ref=0, re\_level=0, re\_step=0; // 답변글이 아닐 경우를 생각해 초기화**

**String pageNum = request.getParameter("pageNum");**

**if(pageNum==null) pageNum = "1";**

**BoardDto dto = new BoardDto();**

**if(request.getParameter("num")!=null){ //답변글이군**

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

**BoardDao boardDao = BoardDao.getInstance();**

**dto = boardDao.getBoardOneLine(num); // 원글에 대한 정보**

**ref = dto.getRef();**

**re\_step = dto.getRe\_step();**

**re\_level = dto.getRe\_level();**

**System.out.print(dto.getRef()+":"+dto.getRe\_step()+":"+dto.getRe\_level());**

**}**

**%>**

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

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

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

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

**<input type=*"hidden"* name=*"re\_step"* value=*"*<%=re\_step %>*"*>**

**<input type=*"hidden"* name=*"re\_level"* value=*"*<%=re\_level %>*"*>**

<table>

<caption>글쓰기</caption>

<tr><th>제목</th>

<td><input type=*"text"* name=*"subject"* size=*"30"*

required=*"required"* autofocus=*"autofocus"*

value=*"*<%

**if**(num>0) out.print("[답]"+dto.getSubject().substring(0,1)); %>*"*>

</td>

</tr>

<tr><th>작성자</th>

<td><input type=*"text"* name=*"writer"* size=*"30"*

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

</tr>

<tr><th>메일</th>

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

</tr>

<tr><th>본문</th>

<td><textarea rows=*"10"* cols=*"30"* name=*"content"*

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

</tr>

<tr><th>삭제비번</th>

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

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

</tr>

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

<input type=*"submit"* value=*"저장"*>

<input type=*"reset"* value=*"다시"*>

<input type=*"button"* value=*"목록"*

onclick=*"location.href='list.jsp?pageNum=*<%=pageNum%>*'"*>

</table>

</form>

</body>

</html>

1. writePro.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>

<% 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);

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

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

%>

<script>

alert('글쓰기 완료');

location.href = 'list.jsp?pageNum=<%=pageNum%>';

</script>

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

<script>

alert('글쓰기 실패');

history.back();

</script>

<%}%>

</body>

</html>

1. BoardDao.java

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

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

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

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

**private** BoardDao() { }

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

**return** *instance*;

}

// 커넥션풀에서 conn객체 가져오는 메소드

**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) {

e.printStackTrace();

}

**return** conn;

}

// 게시판 글 갯수 리턴하는 메소드

**public** **int** getTotalCnt() {

**int** totCnt = 0;

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

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

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

rs = pstmt.executeQuery();

rs.next();

totCnt = rs.getInt(1);

} **catch** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

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

} **catch** (Exception e) { }

}

**return** totCnt;

}

// 전체 게시판 내용 ArrayList<BoardDto>를 리턴하는 메소드 - 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 NUM DESC";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

rs = pstmt.executeQuery();

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

BoardDto dto = **new** BoardDto();

dto.setNum(rs.getInt("num"));

dto.setWriter(rs.getString("writer"));

dto.setSubject(rs.getString("subject"));

dto.setContent(rs.getString("content"));

dto.setEmail(rs.getString("email"));

dto.setReadcount(rs.getInt("readcount"));

dto.setPw(rs.getString("pw"));

dto.setRef(rs.getInt("ref"));

dto.setRe\_step(rs.getInt("re\_step"));

dto.setRe\_level(rs.getInt("re\_level"));

dto.setIp(rs.getString("ip"));

dto.setRdate(rs.getTimestamp("rdate"));

dtos.add(dto);

}

} **catch** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

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

} **catch** (Exception e) { }

}

**return** dtos;

}

// 전체 게시판 내용 ArrayList<BoardDto>를 리턴하는 메소드 - 글목록

**public** ArrayList<BoardDto> listBoard(**int** startR, **int** endR) {

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

Connection conn = **null**;

PreparedStatement pstmt = **null**;

ResultSet rs = **null**;

/\*

\* String sql = "SELECT \* FROM (SELECT ROWNUM RN, A.\* " +

\* " FROM (SELECT \* FROM BOARD ORDER BY NUM DESC) A) " +

\* " WHERE RN BETWEEN ? AND ?";

\*/

String sql = "SELECT \* FROM (SELECT ROWNUM RN, A.\* "

+ " FROM (SELECT \* FROM BOARD ORDER BY ref DESC, re\_step ASC) A) "

+ " WHERE RN BETWEEN ? AND ?";

**try** {

conn = getConnection();

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, startR);

pstmt.setInt(2, endR);

rs = pstmt.executeQuery();

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

BoardDto dto = **new** BoardDto();

dto.setNum(rs.getInt("num"));

dto.setWriter(rs.getString("writer"));

dto.setSubject(rs.getString("subject"));

dto.setContent(rs.getString("content"));

dto.setEmail(rs.getString("email"));

dto.setReadcount(rs.getInt("readcount"));

dto.setPw(rs.getString("pw"));

dto.setRef(rs.getInt("ref"));

dto.setRe\_step(rs.getInt("re\_step"));

dto.setRe\_level(rs.getInt("re\_level"));

dto.setIp(rs.getString("ip"));

dto.setRdate(rs.getTimestamp("rdate"));

dtos.add(dto);

}

} **catch** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

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

} **catch** (Exception e) { }

}

**return** dtos;

}

// 글쓰기 메소드(insert기능) - 글쓰기

public int insertBoard(BoardDto dto) {

int result = *FAIL*;

Connection conn = null;

PreparedStatement pstmt = null;

ResultSet rs = null;

try {

conn = getConnection();

if (dto.getRef() != 0) {

/\* 답변글일 시 답변글 끼리의 순번 다시 정하기 \*/

String sqlstep = "UPDATE BOARD SET RE\_STEP = RE\_STEP+1 WHERE REF=? AND RE\_STEP > ?";

pstmt = conn.prepareStatement(sqlstep);

pstmt.setInt(1, dto.getRef());

pstmt.setInt(2, dto.getRe\_step());

pstmt.executeUpdate();

pstmt.close();

System.*out*.println("윗라인 정리");

dto.setRe\_step(dto.getRe\_step() + 1);

dto.setRe\_level(dto.getRe\_level() + 1);

}

/\* 글번호 몇으로 글을 추가할지? \*/

String sqlNum = "SELECT NVL(MAX(NUM),0)+1 FROM BOARD";

pstmt = conn.prepareStatement(sqlNum);

rs = pstmt.executeQuery();

rs.next();

int num = rs.getInt(1); // 이 글번호로 글쓰기 추가할 예정

rs.close();

pstmt.close();

String sql = "INSERT INTO BOARD VALUES "

+ " (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, sysdate)";

/\* num, name, subject, content, email,

readcount, pw, ref, re\_step, re\_level, ip\*/

pstmt = conn.prepareStatement(sql);

pstmt.setInt(1, num);

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

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

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

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

pstmt.setInt(6, dto.getReadcount());

pstmt.setString(7, dto.getPw());

if (dto.getRef() == 0)

dto.setRef(num);

pstmt.setInt(8, dto.getRef());

pstmt.setInt(9, dto.getRe\_step());

pstmt.setInt(10, dto.getRe\_level());

pstmt.setString(11, dto.getIp());

result = pstmt.executeUpdate();

} catch (SQLException e) {

e.printStackTrace();

} finally {

try {

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

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

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

} catch (Exception e) { }

}

return result;

}

// 해당 글번호의 조회수 하나 올리기 메소드 - 글 상세볼 때 같이 호출

**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** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

} **catch** (Exception e) { }

}

}

**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** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

} **catch** (Exception e) { }

}

}

// 글번호로 글 전체 dto를 반환하는 메소드 - 글상세보기

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

BoardDto dto = **new** BoardDto();

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()) {

dto.setNum(num);

dto.setWriter(rs.getString("writer"));

dto.setSubject(rs.getString("subject"));

dto.setContent(rs.getString("content"));

dto.setEmail(rs.getString("email"));

dto.setReadcount(rs.getInt("readcount"));

dto.setPw(rs.getString("pw"));

dto.setRef(rs.getInt("ref"));

dto.setRe\_step(rs.getInt("re\_step"));

dto.setRe\_level(rs.getInt("re\_level"));

dto.setIp(rs.getString("ip"));

dto.setRdate(rs.getTimestamp("rdate"));

}

} **catch** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

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

} **catch** (Exception e) { }

}

**return** dto;

}

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

BoardDto dto = **new** BoardDto();

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()) {

dto.setNum(rs.getInt("num"));

dto.setWriter(rs.getString("writer"));

dto.setSubject(rs.getString("subject"));

dto.setContent(rs.getString("content"));

dto.setEmail(rs.getString("email"));

dto.setReadcount(rs.getInt("readcount"));

dto.setPw(rs.getString("pw"));

dto.setRef(rs.getInt("ref"));

dto.setRe\_step(rs.getInt("re\_step"));

dto.setRe\_level(rs.getInt("re\_level"));

dto.setIp(rs.getString("ip"));

dto.setRdate(rs.getTimestamp("rdate"));

}

} **catch** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

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

} **catch** (Exception e) { }

}

**return** dto;

}

// dto를 받아 테이블에 update하는 메소드 - 글수정

**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** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

} **catch** (Exception e) { }

}

**return** result;

}

// 글번호를 받아 delete하는 메소드 - 글삭제

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

**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, pwChk);

result = pstmt.executeUpdate();

} **catch** (SQLException e) {

e.printStackTrace();

} **finally** {

**try** {

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

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

} **catch** (Exception e) { }

}

**return** result;

}

}

1. style.css

@charset *"UTF-8"*;

**body** { background-color: *#ffff9b*; font-size: *9pt*; }

**table**{width:*100%*; border: *pink* *solid* *2px*; margin: *10px* *auto*;}

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

**tr***:HOVER* { background-color: *orange*;cursor: *pointer*;}

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

**caption** { font-size: *1.3em*; text-align: *center*;}

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

**div** { text-align: *center*; }

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

**a**{color:*black*;}

1. 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>

<%

**final** **int** PAGESIZE=10; // 한페이지당 보일 글 갯수

**final** **int** BLOCKSIZE=10; // 한페이지당 보일 페이지 갯수

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

**if**(pageNum==**null**){// list.jsp -> list.jsp?pageNum=1

pageNum = "1";

}

**int** currentPage = Integer.parseInt(pageNum);

**int** startRow = (currentPage-1)\*PAGESIZE + 1; // 시작행

**int** endRow = startRow + PAGESIZE - 1; // 끝행

BoardDao bDao = BoardDao.getInstance();

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

**if**(dtos.size()==0){

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

}**else**{

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

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

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

**if**(d.getRe\_level()>0){

**int** width = d.getRe\_level()\*10;//level.gif의 width

out.print("<img src='../img/level.gif' height='10' width='"+width+"'>");

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

}

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

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

}

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

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

out.print("<td>"+d.getEmail()+"</td><td>"+d.getIp()+"</td>");

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

}

}

%>

</table>

<div class=*"paging"*>

<%

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

**int** pageCnt = (**int**)Math.ceil((**double**)totCnt/PAGESIZE);// 전체페이지갯수

**int** startPage = ((currentPage-1)/BLOCKSIZE)\*BLOCKSIZE +1;

**int** endPage = startPage + BLOCKSIZE -1;

**if**(endPage>pageCnt){

endPage = pageCnt;

}

**if**(startPage > BLOCKSIZE ){

out.print(" [ <a href='list.jsp?pageNum="+(startPage-1)+"'>이전</a> ] ");

}

**for**(**int** i=startPage ; i<=endPage ; i++){

**if**(i==currentPage){

out.print(" [ <span class='currentPage'>" +i +"</span> ] ");

}**else**{

out.print(" [ <a href='list.jsp?pageNum="+i+"'>"+ i+"</a> ]");

}

}

**if**(endPage<pageCnt){

out.print(" [ <a href='list.jsp?pageNum="+(endPage+1)+"'>다음</a> ] ");

}

%>

</div>

</body>

</html>

1. deleteForm.jsp

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Insert title here</title>

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

</head>

<body>

<% String pageNum = request.getParameter("pageNum");

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

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

%>

<table>

<caption>글삭제</caption>

<tr><td>

<fieldset>

<legend>암호가 맞아야 삭제 가능</legend>

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

<input type=*"hidden"* name=*"pageNum"*

value=*"*<%=pageNum%>*"*>

<input type=*"hidden"* name=*"num"*

value=*"*<%=num %>*"*>

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

<input type=*"submit"* value=*"글삭제"*>

<input type=*"reset"* value=*"삭제취소"*

onclick="history.back()">

</form>

</fieldset>

</td></tr>

</table>

</body>

</html>

1. deletePro.jsp

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

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<% String pageNum = request.getParameter("pageNum");

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

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

BoardDao boardDao = BoardDao.getInstance();

**int** result = boardDao.deleteBoard(num, pwChk);

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

response.sendRedirect("list.jsp?pageNum="+pageNum);

}**else**{%>

<script>

alert('비밀번호가 맞지 않으면 삭제되지 않아요');

location.href='content.jsp?num=<%=num%>&pageNum=<%=pageNum%>';

</script>

<% }%>

</body>

</html>

1. updateForm.jsp

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

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Insert title here</title>

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

</head>

<body>

<% String pageNum = request.getParameter("pageNum");

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

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

BoardDao boardDao = BoardDao.getInstance();

BoardDto dto = boardDao.getBoardOneLine(num);

%>

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

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

<input type=*"hidden"* name=*"num"* value=*"*<%=dto.getNum()%>*"*>

<table>

<caption>글수정</caption>

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

<tr><th>제목</th>

<td><input type=*"text"* name=*"subject"* size=*"29"*

value=*"*<%=dto.getSubject() %>*"* required=*"required"*>

</td>

</tr>

<tr><th>작성자</th>

<td><input type=*"text"* name=*"writer"* size=*"29"*

value=*"*<%=dto.getWriter() %>*"* required=*"required"*>

</td>

</tr>

<tr><th>이메일</th>

<td><input type=*"email"* name=*"email"* size=*"29"*

value=*"*<%**if**(dto.getEmail()!=**null**)

out.print(dto.getEmail());%>*"*>

</td>

</tr>

<tr><th>본문</th>

<td><pre><textarea name=*"content"* rows=*"10"* cols=*"30"*

required=*"required"*

><%=dto.getContent() %></textarea></pre>

</td>

</tr>

<tr><th>삭제암호</th>

<td><input type=*"password"* name=*"pw"* size=*"29"*

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

</td>

</tr>

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

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

<input type=*"reset"* value=*"수정취소"*>

<input type=*"button"* value=*"이전"*

onclick="history.back()">

<input type=*"button"* value=*"목록"*

onclick="location.href='list.jsp'">

</table>

</form>

</body>

</html>

1. updatePro.jsp

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

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

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Insert title here</title>

</head>

<body>

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

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

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

<% String pageNum = request.getParameter("pageNum");

BoardDao boardDao = BoardDao.getInstance();

dto.setIp(request.getRemoteAddr());//ip 주소 셋팅

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

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

%> <script>

alert('글수정 성공');

location.href = 'list.jsp?pageNum=<%=pageNum%>'; // 글수정 후 목록페이지로

// location.href = 'content.jsp?num=<%=dto.getNum() %>&pageNum=<%=pageNum%>';

</script>

<% }**else**{%>

<script>

alert('글수정 실패');

//history.back();

location.href = 'updateForm.jsp?num=<%=dto.getNum()%>&pageNum=<%=pageNum%>';

</script>

<% }%>

</body>

</html>

1. insert220.jsp

<%

BoardDao boardDao = BoardDao.getInstance();

BoardDto dto = **new** BoardDto();

**for**(**int** i=0 ; i<=220 ; i++){

dto.setSubject("홍길동은 "+i+"번 번쩍");

dto.setWriter("홍"+i+"길동");

dto.setEmail("hong"+i+"@tj.com");

dto.setContent("홍길동은 동해번쩍 서해번쩍\n"+i+"번이나 번쩍번쩍");

dto.setPw("11");

dto.setReadcount(i%12);

dto.setNum(0);

dto.setRef(0);

dto.setRe\_step(0);

dto.setRe\_level(0);

dto.setIp(request.getRemoteAddr());

boardDao.insertBoard(dto);

}

response.sendRedirect("list.jsp");

%>

1. error404.jsp

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

pageEncoding=*"UTF-8"*%>

<%@ page isErrorPage=*"true"* %>

<% response.setStatus(200); %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<h1>본 기능은 공사중(404처리 됨. 보강중)입니다. 곧 마무리 됩니다</h1>

</body>

</html>

1. sql화일