# Spring Project

# 천왕동 우리동네 커뮤니티

# 프로그램 설명 목차

- 1. 프로그램을 만든 이유
- 2. 사용기술
- 3. View 화면 및 구현 코드

## 프로그램을 만든 이유

여름에 집에서 프로그래밍을 하기에는 더워서 카페에 자주 다녔는데, 내

가 살고 있는 동네는 아파트 단지 안에 많은 상가 건물이 있기 때문에 많

은 아주머니들이 카페에 모여서 수다를 떠는데, 듣기에 서로 좋은 정보를

공유하는 것 같아 만나지 않아도 소통할 수 있도록 개발

# 사용 기술

- 1. 기술언어
  - Java
  - Jsp
- 2. 프레임워크
  - Spring framework (MVC2 패턴)
- 3. 데이터베이스
  - MySQL
- 1. 오픈소스
  - Gmail
  - reCaptcha
  - BootStrap
- 2. 개발환경
  - Windows 10
  - Eclipse IDE version. 2018-09

# View 화면 - 메인페이지



#### 천왕이펜하우스 소통 사이트입니다.



공지사항

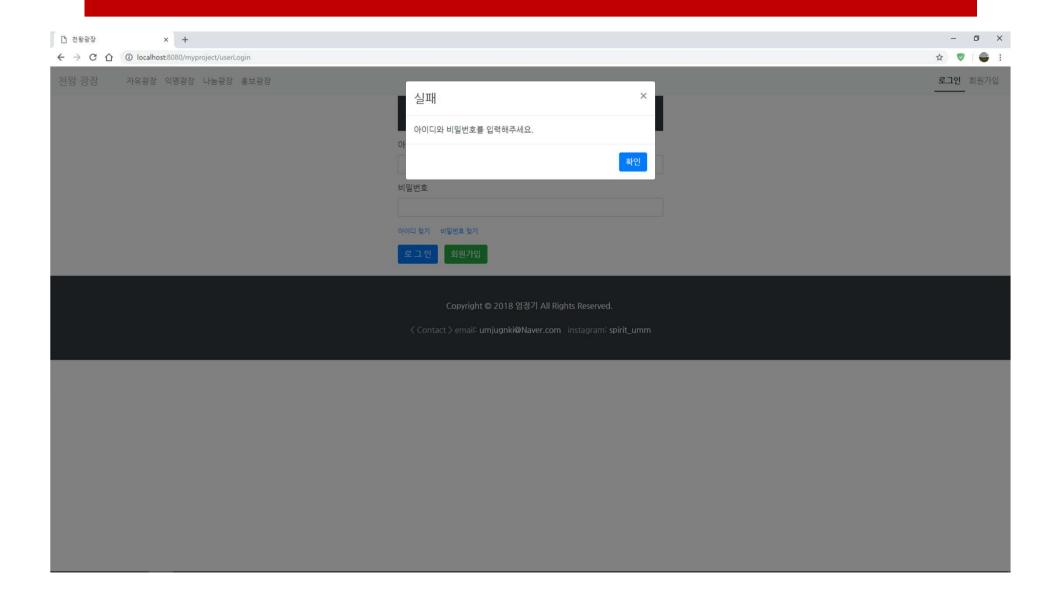
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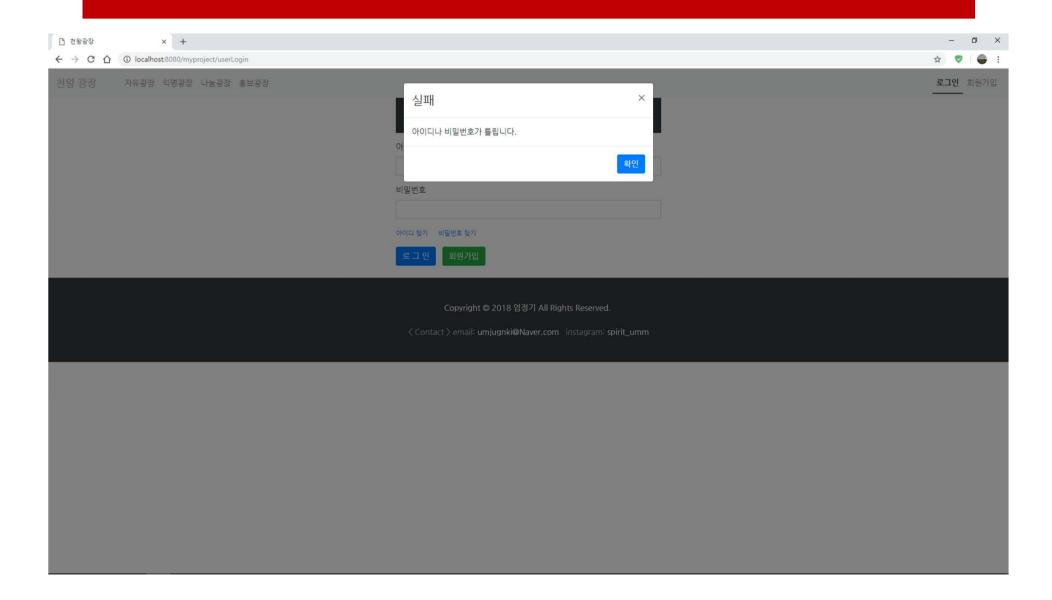
# View 화면 - 로그인

D AND DE			- o ×			
천왕광장	× +					
← → C ↔	① localhost:8080/myproject/userLogin		☆ ♥   ● :			
천왕 광장	자유광장 익명광장 나눔광장 홍보광장		<b>로그인</b> 회원가입			
		로그인				
		아이디				
		비밀번호				
		아이디 찾기 비밀번호 찾기				
		로그인 회원가입				
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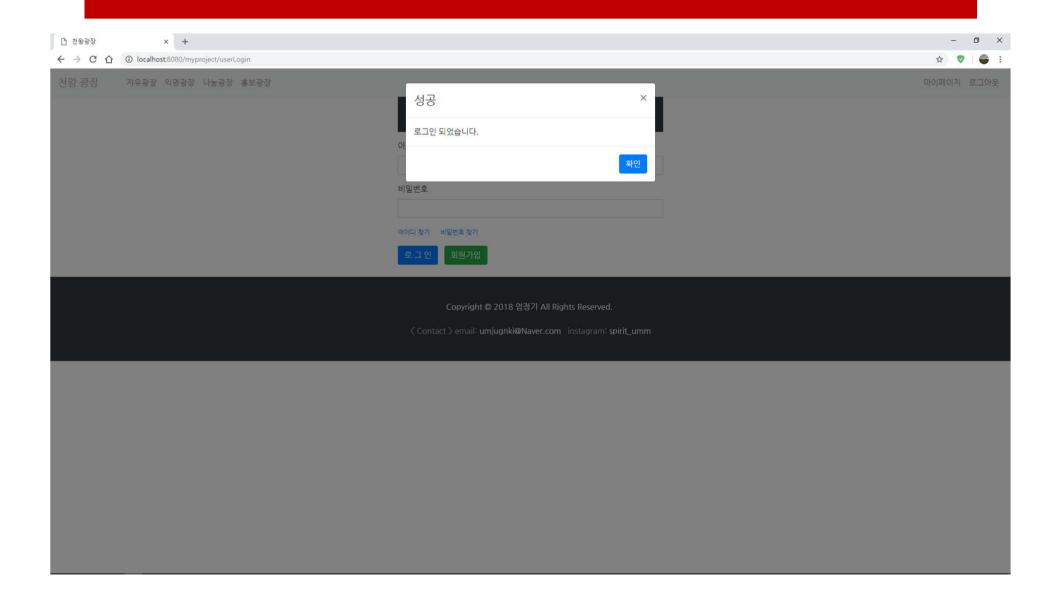
# View 화면 - 로그인 (정보가 없을 때)



# View 화면 - 로그인 (정보가 틀렸을 때)



# View 화면 - 로그인 (로그인 성공)



## View 화면 - 로그인 (로그인 구현 로직)

#### - Controller

```
@RequestMapping("/loginAction")
public String loginAction(HttpServletRequest request, HttpServletResponse response) throws Exception
   String userID = (String) request.getParameter("userID");
   String userPassword = (String) request.getParameter("userPassword");
    if(userID == null || userPassword == null || userID.equals("") || userPassword.equals("")) {
        request.getSession().setAttribute("msgType", "2");
        request.getSession().setAttribute("msgContent", "아이디와 비밀번호를 입력해주세요.");
        return "redirect:userLogin";
    int result = usersvc.login(userID, userPassword);
    if(result == 1) {
        request.getSession().setAttribute("userID", userID);
        request.getSession().setAttribute("nickName", usersvc.getNickname(userID));
       request.getSession().setAttribute("msgType", "1");
request.getSession().setAttribute("msgContent", "로그인 되었습니다.");
        return "redirect:userLogin";
    else if(result == 0 || result == -1) {
       request.getSession().setAttribute("msgType", "2");
request.getSession().setAttribute("msgContent", "아이디나 비밀번호가 틀립니다.
        return "redirect:userLogin";
        request.getSession().setAttribute("msgType", "3");
        request.getSession().setAttribute("msgContent", "데이터베이스 오류입니다. 관리자에게 문의하십시오.")
        return "redirect:userLogin"
```

#### - jsp에서 세션값을 String에 저장

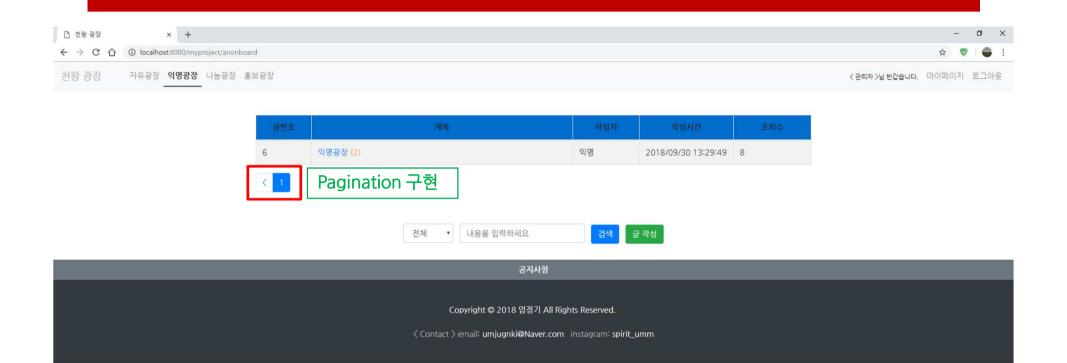
```
String msgContent = null;
if(session.getAttribute("msgContent") != null)
    msgContent = (String)session.getAttribute("msgContent");
String msgType = null;
if(session.getAttribute("msgType") != null)
    msgType = (String)session.getAttribute("msgType");
if(msgType != null) {
%>
```

#### - Bootstrap Modal 창에 세션값을 출력

```
kdiv class="modal fade" id="messageModal" tabindex="-1" role="dialog" aria-hidden="true">
   <div class="vertical-alignment-helper">
        <div class="modal-dialog vertical-align-center">
            <div class="modal-content" >
                <div class="modal-header panel-heading">
                         <% if(msgType.equals("1")) out.println("성공"); else out.println("실패"); %>
                     <button type="button" class="close" data-dismiss="modal">
                         <span aria-hidden="true">&times;</span>
                         <span class="sr-only">Close</span>
                     </button>
                <div class="modal-body">
                     <%= msgContent %>
                     <button class="btn btn-<%if(msgType.equals("1")) out.println("primary");</pre>
                    else out.println("danger"); %>" data-dismiss="modal" <%
if(msgType.equals("1")) out.print("onclick='goindex()'"); %>>확인</button
            </div>
        </div>
   </div>
 /div>
 script
   $('#messageModal').modal('show');
```

자바 단에서 msgType, msgContent를 session 등록 하여 isp 페이지에서 Modal 창에 출력

# View 화면 - 게시판화면

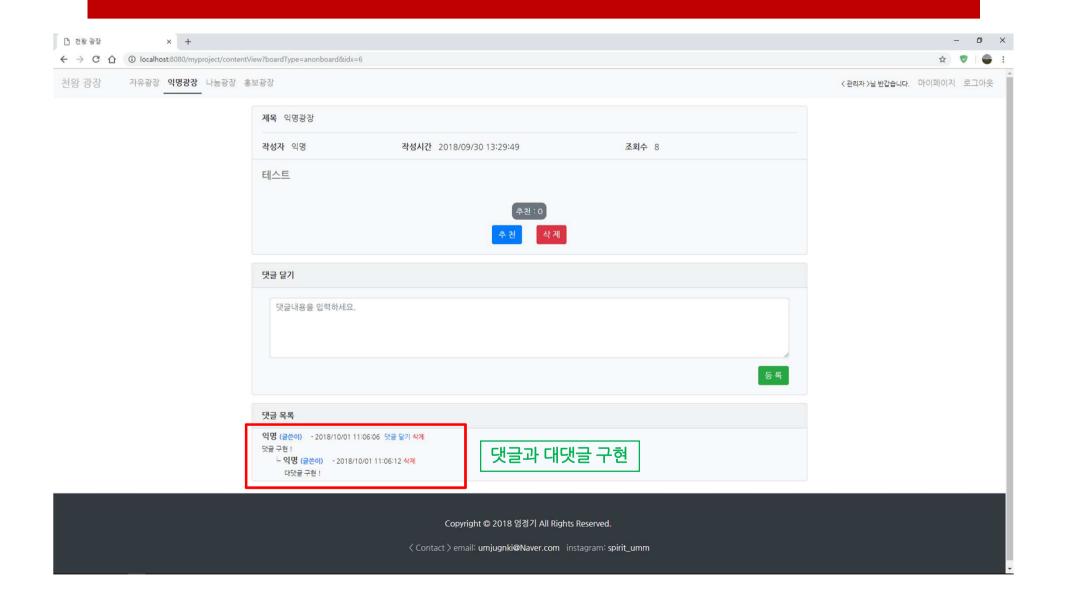


## View 화면 - Pagination 코드

```
<nav aria-label="Page navigation example">
   public int targetPage(int countindex,String boardType) throws Exception {
          int startPage = (pageNumber / 10) * 10 + 1;
                if(pageNumber % 10 == 0)
                                                                                                             Connection conn = null;
                    startPage -= 10;
                                                                                                             PreparedStatement pstmt = null;
                int targetPage = new ContentDAOImpl().targetPage(contentcount, "freeboard");
                                                                                                              ResultSet rs = null;
                if(targetPage > 0)
                                                                                                             String sql = "SELECT COUNT(writeID) FROM " + boardType + " WHERE writeID < ?";</pre>
                    targetPage = (targetPage / 10) + 1;
                if(startPage != 1) {
                                                                                                              try {
                                                                                                                  conn = DatabaseUtil.getConnection();
      class="page-item"><a class="page-link" href="freeboard?pageNumber=<%= startPage - 1 %>">&lt;</a>
                                                                                                                  pstmt = conn.prepareStatement(sql);
                                                                                                                  pstmt.setInt(1, countindex);
                                                                                                                  rs = pstmt.executeQuery();
      <a class="page-link" href="">&lt;</a>
                                                                                                                  if(rs.next()) {
                                                                                                                      int tmp = 0;
                                                                                                                      return rs.getInt(1);
          for(int i = startPage; i < pageNumber; i++) {</pre>
                                                                                                              } catch(Exception e) {
      class="page-item"><a class="page-link" href="freeboard?pageNumber=<%= i %>"><%= i %></a>
                                                                                                                  e.printStackTrace();
                                                                                                              } finally {
      <la class="page-item active"><a class="page-link" href="freeboard?pageNumber=<%= pageNumber %>"><%= pageNumber %>"
                                                                                                                       if(rs != null) rs.close();
                                                                                                                      if(pstmt != null) pstmt.clearBatch();
         for(int i = pageNumber + 1; i <= pageNumber + targetPage; i++) {</pre>
                                                                                                                      if(conn != null) conn.close();
             if(i < startPage + 10) {
                                                                                                                  } catch (Exception e) {
      class="page-item"><a class="page-link" href="freeboard?pageNumber=<%= i %>"><%= i %></a>
                                                                                                                       e.getStackTrace():
                                                                                                              // 오류가 발생하였을 때
      if(targetPage + pageNumber > startPage + 9) {
                                                                                                              return 0;
      class="page-item"><a class="page-link" href="freeboard?pageNumber=<%= startPage + 10 %>">&gt;</a>
```

게시물의 개수인 Contentcount 변수를 targetPage()에 매개변수로 주어 return값을 targetpage에 저장하고 한 페이지에 게시글 10개씩 넣고, 10개가 넘으면 새로운 pagenumber를 만듭니다.

# View 화면 - 대댓글구현



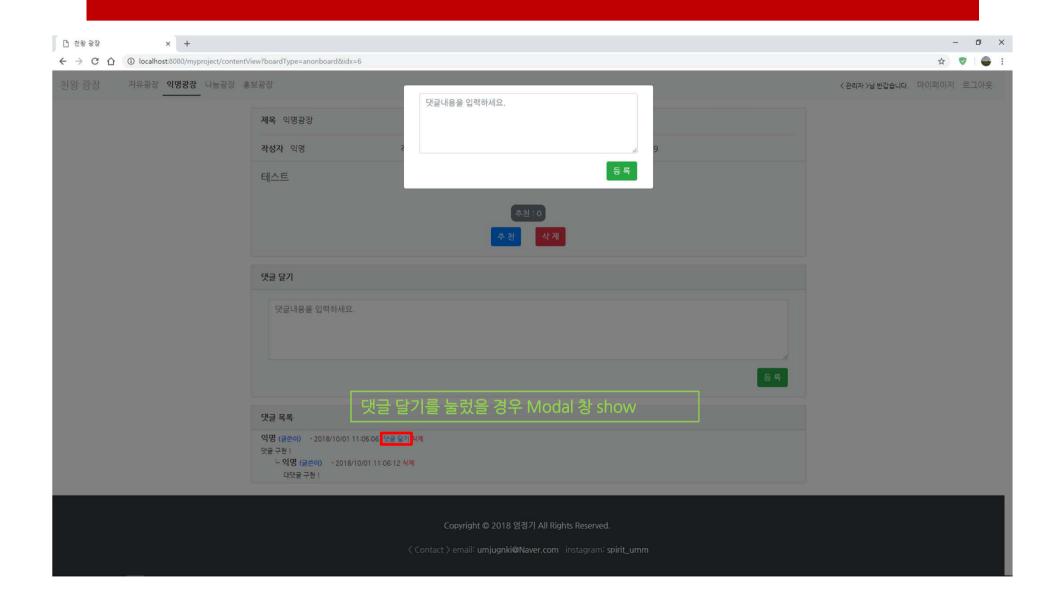
## View 화면 - 대댓글 구현 코드

```
// 대댓글을 처리하는 코드
                                    for(int j = i + 1; j < cmtList.size(); j++) {</pre>
                                                      CommentDTO cmt2 = cmtList.get(j);
                                                      if(cmt.getCommentID() == cmt2.getPreComment()) {
 %>
                                                                                                              <div class="row">
                                                                                                                               <div class="col-md-12 pt-10">
  <%
                   if(boardType.equals("anonboard")) {
 %>
                                                                                                                                                 <a style="font-weight: bold;">&nbsp;&nbsp;&nbsp;&nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp;\u00e48nbsp
                    if(cntdto.getUserID().equals(cmt2.getUserID()))
                                                                                                                                                  <small style="font-weight: bold; color: #0A6EFF;">(글쓴이)</small>
                    } else {
                                                                                                                                                  <a style="font-weight: bold;">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; \delta\nbsp; \del
  <%
                                                                                                                                                  <small>&nbsp;&nbsp;&nbsp;&nbsp; < <%= cmt2.getCommentTime() %></small>
                                                                                                                                                  <small><a onclick="return confirm('댓글을 삭제하시겠습니까?')"
                                                                                                                                                 href="./commentDelete?boardType=<%= cmt2.getboardType() %>&commentID=<%= cmt2.getCommentID() %>&writeID=<%= idx %>"
                                                                                                                                                 style="color: red;">삭제</a></small>
                                                                                                                               </div>
                                                                                                                               <div class="col pl-4 pl-10">
                                                                                                                                                 <small>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<mt2.getCommentContent() %></small>
                                                                                                                               </div>
                                                                                                              </div>
%>
                                                       </div>
                                                                                                                                                                                                                                                                                                            댓글의 달린 대댓글인지 확인!
                                                                         cmtList.remove(i);
```

## 댓글 데이터베이스에 PreComment 속성을 만들어서 어떤

mysql> desc anonboard_comment;								
Field	Туре	Null	Key	Default	Extra			
commentID     writeID     preComment     userID     commentContent     commentTime	int(11) int(11) int(11) varchar(20) varchar(1048) varchar(20)	NO YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL	auto_increment			

# View 화면 - 대댓글 달기



### View 화면 - 대댓글 달기 코드

- 댓글을 만들 때 "댓글 달기 " 버튼을 만들어서 Modal창 Show

```
<a href="#registerModal" data-toggle="modal" onclick="button_click('<%= cmt.getCommentID() %>');"><small>댓글 달기</small></a>
```

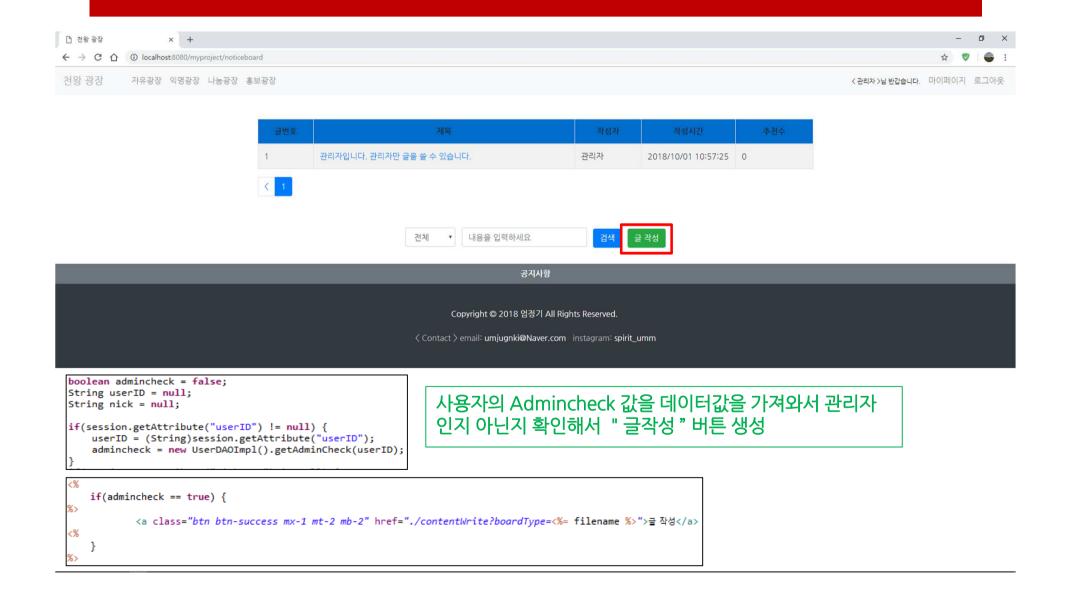
- Bootstrap Modal 창

```
<div class="modal" id="registerModal" tabindex="-1" role="dialog" aria-labelledby="modal">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-body">
                <form method="post" action="commentRegister?boardType=<%=boardType%>&idx=<%=idx%>">
                    <input type="hidden" id="cmntid" name="preComment" value="">
                    <div class="container">
                        <textarea name="commentContent" class="form-control" maxlength="2048"</pre>
                        style="height: 120px; width: 100%;" placeholder="댓글내용을 일찍하세요."></textarea>
                    <div class="form-group text-right mt-3 mr-3 mb-0">
                        <button class="btn btn-success" type="submit">등 \( \frac{4}{5} \) 
                    </div>
                </form>
            </div>
        </div>
    </div>
 </div>
```

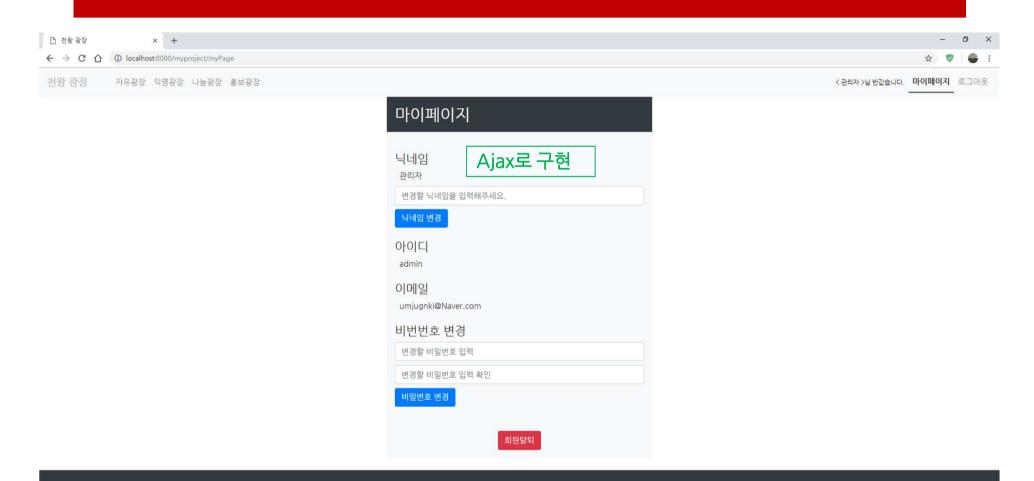
#### - 댓글 등록 코드

```
@RequestMapping("/commentRegister")
public String commentRegister(HttpServletRequest request) throws Exception {
   String userID = (String) request.getSession().getAttribute("userID");
   String boardType = request.getParameter("boardType");
   String commentContent = request.getParameter("commentContent");
   int writeID = Integer.parseInt(request.getParameter("idx"));
   int preComment = Integer.parseInt(request.getParameter("preComment"));
   if(commentContent == null) { // 댓글 내용 없음
       return "redirect:contentView?boardType=" + boardType + "&idx=" + writeID;
   if(boardType == null || writeID == -1) {
       return "redirect:index";
   String time = new TimeCome().getTime();
   int result = new CommentDAOImpl().commentWrite(new CommentDTO(0, writeID, preComment, userID, commentContent, time, boardType));
   if(result == -1) {
       return "redirect:contentView?boardType=" + boardType + "&idx=" + writeID;
   else {
       return "redirect:contentView?boardType=" + boardType + "&idx=" + writeID;
```

## View 화면 - 공지사항게시판



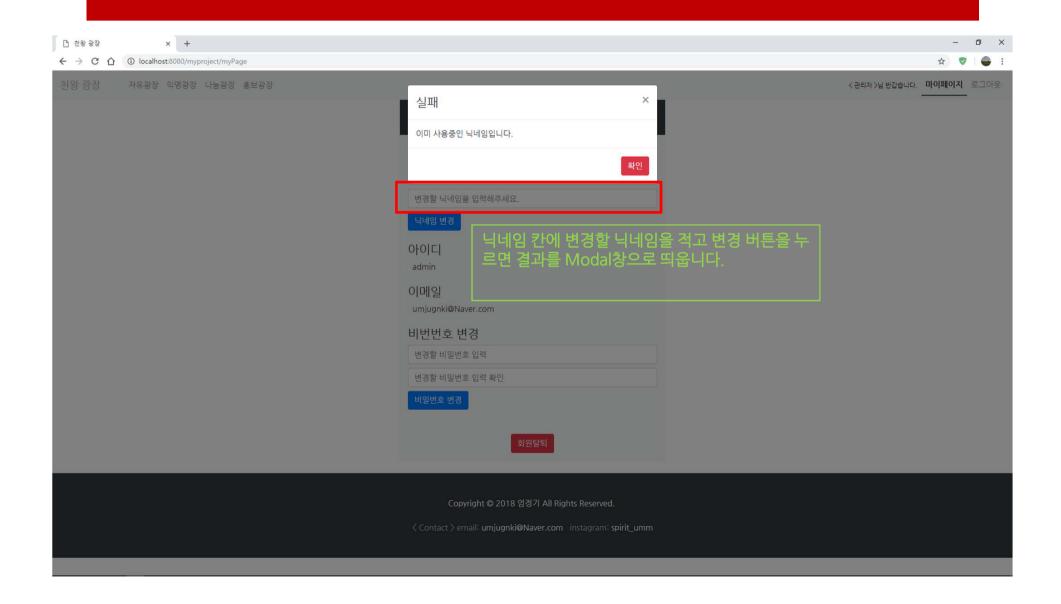
# View 화면 - 마이페이지화면

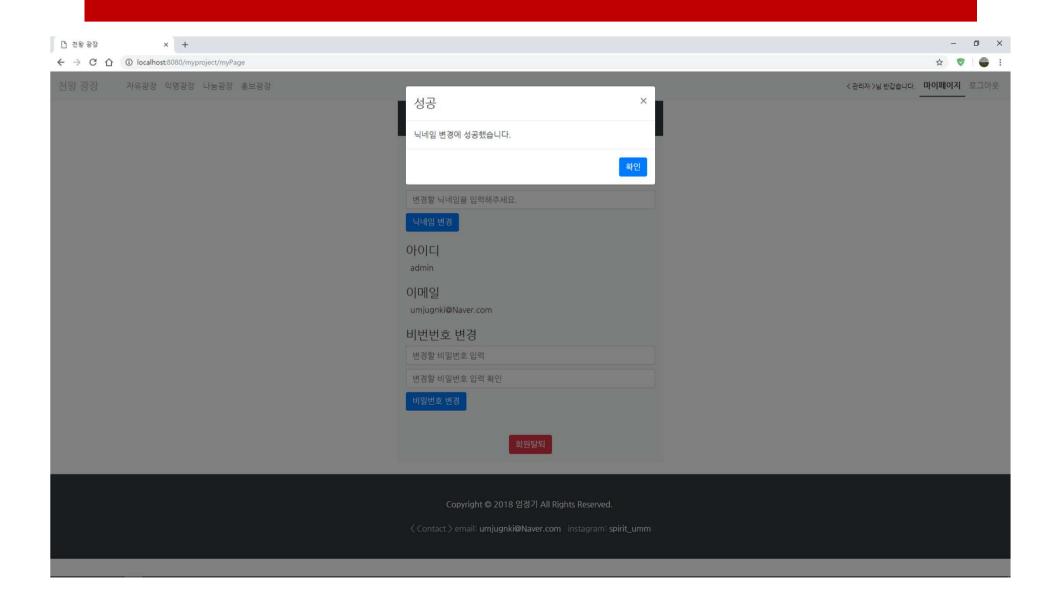


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# View 화면 - 닉네임 변경 (이미 사용중인 닉네임)





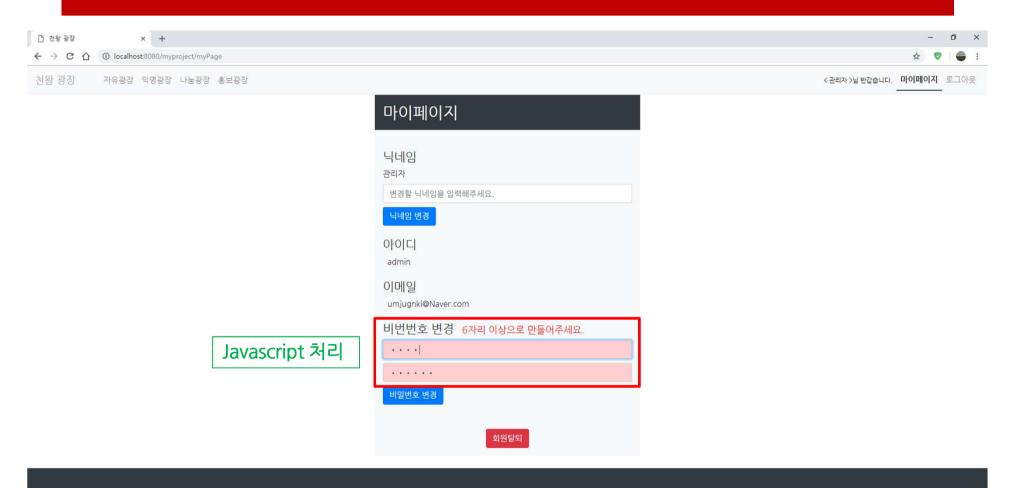
#### - 닉네임 변경 aiax

```
function nickChange() {
   var nickName = $('#nickName').val();
   $.ajax({
       type: 'POST',
       url: './NicknameServlet'.
       data: {nickName: nickName},
       success: function(result) {
           if(result == 1) {
               $('#checkbtn').attr('class', 'btn btn-primary');
               $('#msgType').html('성공');
               $('#msgContent').html('닉네임 변경에 성공했습니다.');
               $('#nicklabel').html(nickName);
           else {
               $('#checkbtn').attr('class', 'btn btn-danger');
               $('#msgType').html('실패');
               if(result == 2)
                   $('#msgContent').html('공백을 입력할 수 없습니다.');
               else if(result == 3)
                   $('#msgContent').html('이미 사용증인 닉네임입니다.');
               else if(result == 4)
                   $('#msgContent').html('데이터베이스 오큐입니다.');
           $('#nickName').val('');
           $('#messageModal').modal('show');
   })
```

#### - Controller 부분

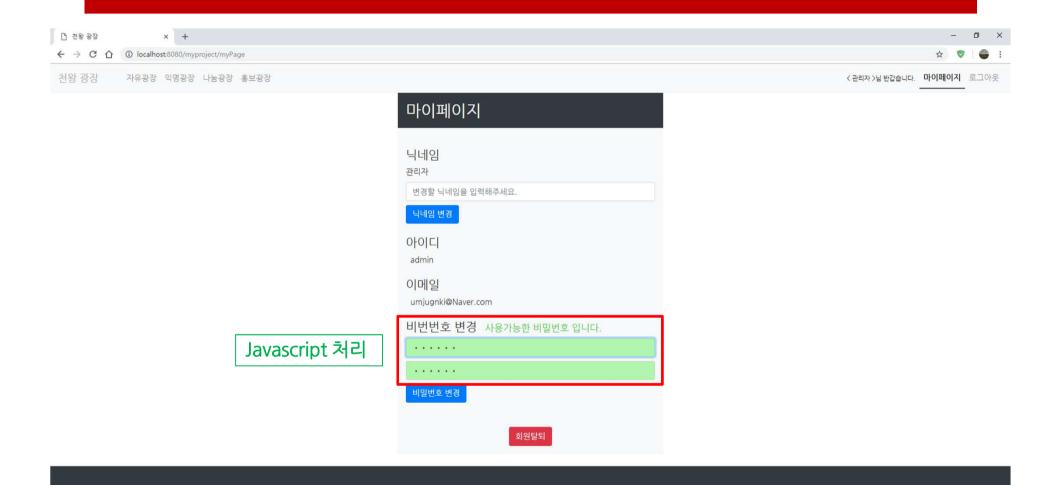
```
@RequestMapping("/NicknameServlet")
public void NicknameServlet(HttpServletRequest request, HttpServletResponse response) throws Exception {
   String nickName = request.getParameter("nickName");
   String userID = (String) request.getSession().getAttribute("userID");
   String result1 = usersvc.isExistNickname(nickName);
   if(nickName == null) {
       response.getWriter().write("2");
       return;
   else if(result1 != null) {
       response.getWriter().write("3");
   int result2 = usersvc.changeNickName(userID, nickName);
   if(result2 == 1) {
       request.getSession().setAttribute("nickName", nickName);
       response.getWriter().write("1");
       return;
   else {
       response.getWriter().write("4");
       return;
```

NicknameServlet으로 데이터를 넘기고 response되는 값 에 따라서 메시지를 Modal 창을 띄움



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- Onkeyup 이벤트 함수를 사용하여 키를 입력할 때마다 실행

```
<input id="userPassword" onkeyup="passwordCheckFuntion();" type="password" name="passwd" class="footnote:
<input id="userPasswordCheck" onkeyup="passwordCheckFuntion();" type="password" name="passwdcheck'</pre>
```

- Javascript로 비밀번호 제약, 일치확인

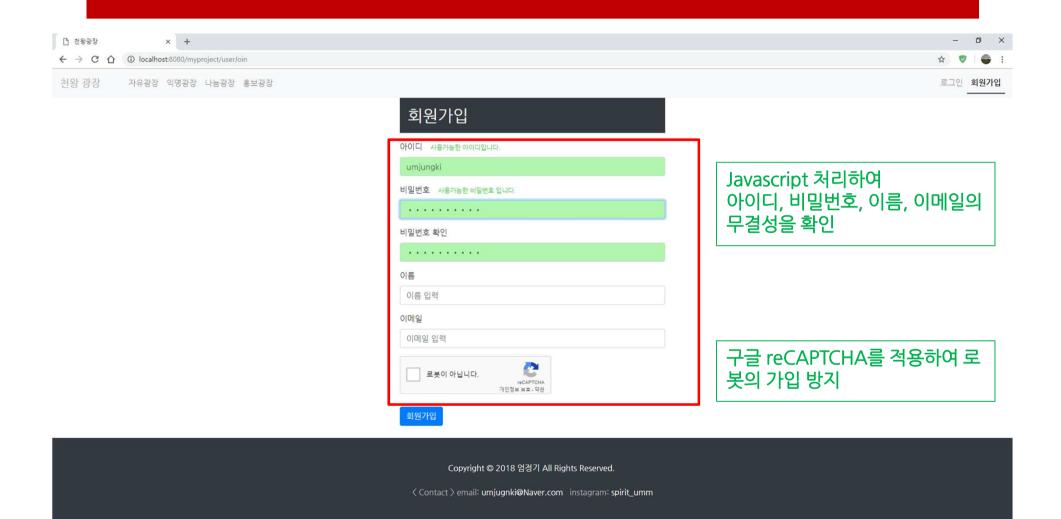
```
function passwordCheckFuntion() {
   var userPassword = $('#userPassword').val();
   var userPasswordCheck = $('#userPasswordCheck').val();
   if(userPassword.length < 6) {</pre>
       $('#userPassword').attr('style', 'background-color: #FFCECE;');
       $('#userPasswordCheck').attr('style', 'background-color: #FFCECE;');
       $('#pwtxt').attr('style', 'color: red;');
       $('#pwtxt').html('6자리 이상으로 만들어주세요.');
   else if(userPassword != userPasswordCheck) {
       $('#userPassword').attr('style', 'background-color: #FFCECE;');
       $('#userPasswordCheck').attr('style', 'background-color: #FFCECE;');
       $('#pwtxt').attr('style', 'color: red;');
       $('#pwtxt').html('비밀번호가 서로 다릅니다.');
   else {
       $('#userPassword').attr('style', 'background-color: #B0F6AC;');
       $('#userPasswordCheck').attr('style', 'background-color: #B0F6AC;');
       $('#pwtxt').attr('style', 'color: limegreen;');
       $('#pwtxt').html('사용가능한 비밀번호 입니다.');
```

#### - 모든 제약을 통과할 경우 비밀번호 변경

```
@RequestMapping("/changePassword")
public String changePassword(HttpServletRequest request) throws Exception {
    String userID = (String)request.getSession().getAttribute("userID");
    String pw1 = request.getParameter("passwd");
    String pw2 = request.getParameter("passwdcheck");

if(pw1 == null || pw2 == null || !pw1.equals(pw2)) {
        request.getSession().setAttribute("msgType", "1");
        request.getSession().setAttribute("msgContent", "d");
        return "redirect:myPage";
}
boolean result = usersvc.changePw(userID, pw1);

if(result == false) // 실패
        return "redirect:myPage";
else // 성공
        return "redirect:myPage";
}
```



#### - ajax로 아이디를 입력하면 가입가능여부 확인

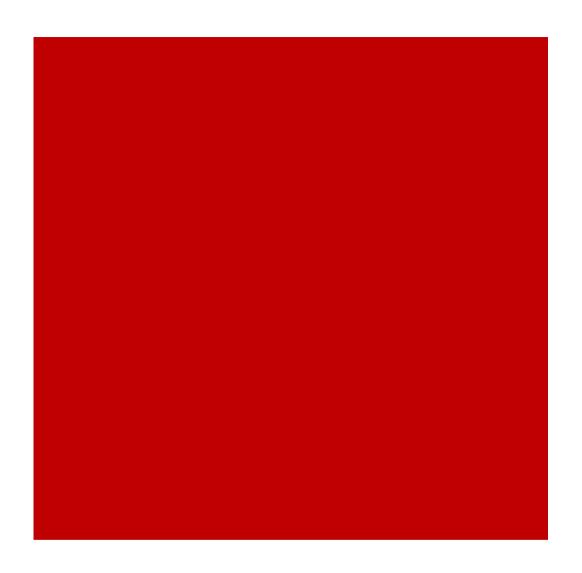
```
function idCheck() {
    var userID = $('#userID').val();
    $.ajax({
        type: 'POST',
        url: './JoinCheck',
        data: {userID: userID},
        success: function(result) {
            if(userID.length == 0) {
                 $('#userID').attr('style', 'background-color: #FFFFFF;');
                 else if(userID.length < 6) {</pre>
                 $('#userID').attr('style', 'background-color: #FFCECE;');
$('#idtxt').attr('style', 'color: red;');
                 $('#idtxt').html('6자리 이상으로 아이디를 만들어주세요.');
            else if(result == 1) {
                 $('#userID').attr('style', 'background-color: #B0F6AC;');
$('#idtxt').attr('style', 'color: limeGreen;');
                 $('#idtxt').html('사용가능한 아이디입니다.');
            else {
                 $('#userID').attr('style', 'background-color: #FFCECE;');
                 $('#idtxt').attr('style', 'color: red;');
                 $('#idtxt').html('이미 사용증인 아이디입니다.');
   })
```

#### - ajax로 인증에 사용된 이메일인지 확인

```
function emailCheck() {
    var userEmail = $('#userEmail').val();
    $.ajax({
        type: 'POST',
        url: './JoinCheck',
        data: {userEmail: userEmail},
        success: function(result) {
            if(userEmail.length == 0) {
                 $('#userEmail').attr('style', 'background-color: #FFFFFF;');
                 $('#emailtxt').html('');
            else if(result == 1) {
                 $('#userEmail').attr('style', 'background-color: #B0F6AC;');
                 $('#emailtxt').attr('style', 'color: limeGreen;');
                 $('#emailtxt').html('사용가능한 이메일 입니다.');
            else {
                 $('#userEmail').attr('style', 'background-color: #FFCECE;');
$('#emailtxt').attr('style', 'color: red;');
                 $('#emailtxt').html('이미 인증에 사용된 이메일 입니다.');
        }
    })
```

#### - ajax로 reCAPTCHA 체크 여부를 받아서 처리

```
String secretkey = "6LeaNGoUAAAAAPmAgP8Wr-QWafwcyIs-v4R0HqQE";
String captcha = request.getParameter("g-recaptcha-response");
URL url = new URL("https://www.google.com/recaptcha/api/siteverify?secret="+secretkey+"&response="+captcha+"&remoteip="+request.getRemoteAddr());
HttpURLConnection conn = (HttpURLConnection) url.openConnection();
conn.setRequestMethod("GET");
String line, outputString = "";
BufferedReader reader = new BufferedReader(new InputStreamReader(conn.getInputStream()));
while ((line = reader.readLine()) != null) {
   outputString += line;
JsonParser jsonParser = new JsonParser();
JsonObject jsonObject = (JsonObject) jsonParser.parse(outputString);
boolean verify = jsonObject.get("success").getAsBoolean();
if(verify == false) {
   request.getSession().setAttribute("msgType", "2");
    request.getSession().setAttribute("msgContent", "자동가입방지를 체크해주세요.");
    return "redirect:userJoin";
```



- END -