

# Spring Mini Project 4

## Spring Mini Project[A Glory]

### ▼ ADMIN[고객센터]

#### board\_SQL.xml

```
<select id="select_chat" resultType="com.glory.board.Board">
<![CDATA[
    SELECT * FROM gloryboard WHERE bpid = 0 ORDER BY bid ASC
]]>
</select>
```

#### MainController.java

```
@RequestMapping("/admin")
public String loginAdmin(Model model) {
    //전체 테이블을 모두 조회
    List<Board> list = boardService.getAllBoardList();

    //그 중 필요한 bstatus 추출. JAVA 1.8 version 부터 지원하는 기능.
    List<Integer> statusList = list.stream().map(Board::getBstatus).collect(Collectors.toList());

    int n1 = 0;
    int n2 = 0;
    int n3 = 0;
    int n4 = 0;
    int n5 = 0;

    for (Integer status : statusList) {
        if (status == 1) {n1++;}
        if (status == 2) {n2++;}
        if (status == 3) {n3++;}
        if (status == 4) {n4++;}
        if (status == 5) {n5++;}
    }

    int cnt = list.size();

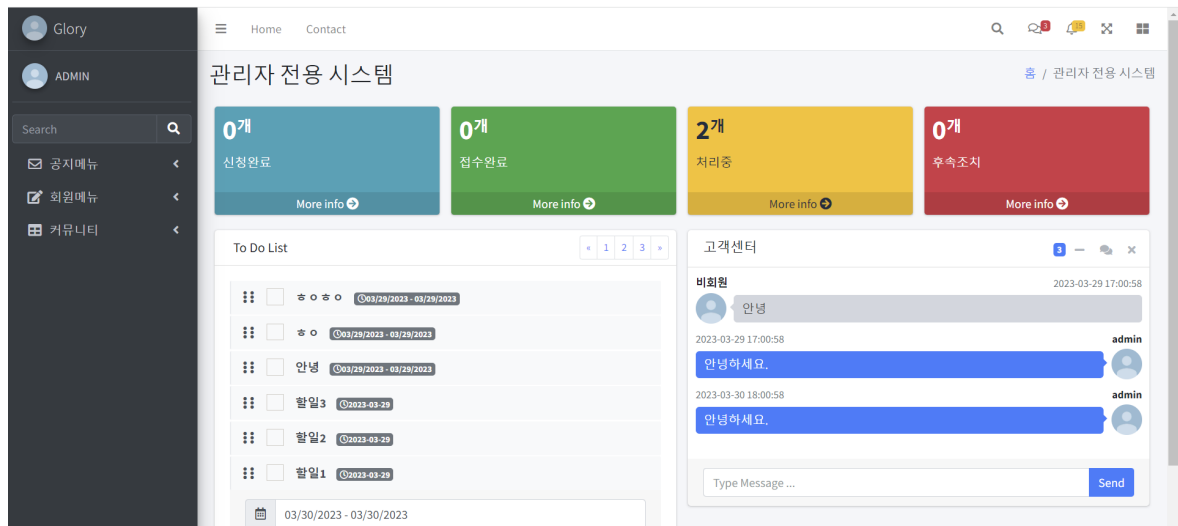
    model.addAttribute("n1", n1);
    model.addAttribute("n2", n2);
    model.addAttribute("n3", n3);
    model.addAttribute("n4", n4);
    model.addAttribute("n5", n5);
    model.addAttribute("cnt", cnt);

    //정상적으로 작동은 하지만 Service, Repository와 같은 일련의 관습은 지키는 것이 좋다.
    List<Todo> todoList = this.sqlSessionTemplate.selectList("todo.select_list");
    List<Board> chatList = this.sqlSessionTemplate.selectList("board.select_chat");

    model.addAttribute("chatList", chatList);
    model.addAttribute("todoList", todoList);

    return "admin";
}
```

#### admin.jsp



```
<%@ include file="header.jsp"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://www.springframework.org/security/tags"
    prefix="sec"%>
<head>
<title>관리자 전용 시스템</title>

<link rel="stylesheet" href="/resources/admin/plugins/daterangepicker/daterangepicker.css">

<link rel="stylesheet" href="/resources/admin/plugins/ichack-bootstrap/ichack-bootstrap.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/bootstrap-colorpicker/css/bootstrap-colorpicker.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/select2/css/select2.min.css">
<link rel="stylesheet" href="/resources/admin/plugins/select2-bootstrap4-theme/select2-bootstrap4.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/bootstrap4-duallistbox/bootstrap-duallistbox.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/bs-stepper/css/bs-stepper.min.css">

<link rel="stylesheet" href="/resources/admin/plugins/dropzone/min/dropzone.min.css">

</head>
<body class="text-center">

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <div class="content-header">
        <div class="container-fluid">
            <div class="row mb-2">
                <div class="col-sm-6">
                    <h1 class="m-0">관리자 전용 시스템</h1>
                </div>
                <!-- /.col -->
                <div class="col-sm-6">
                    <ol class="breadcrumb float-sm-right">
                        <li class="breadcrumb-item"><a href="#">홈</a></li>
                        <li class="breadcrumb-item active">관리자 전용 시스템</li>
                    </ol>
                </div>
            </div>
        </div>
    <!-- /.content-header -->

    <!-- Main content -->
    <div class="content">
        <div class="container-fluid">
```

```

        <div class="row">
            <div class="col-lg-12">

<!------- form ----->

<section class="content">
<div class="container-fluid">

<div class="row">
<div class="col-lg-3 col-6">

<div class="small-box bg-info">
<div class="inner">
<h3>${n1}<sup style="font-size: 20px">개</sup></h3>
<p>신청완료</p>
</div>
<div class="icon">
<i class="ion ion-bag"></i>
</div>
<a href="#" class="small-box-footer">More info <i class="fas fa-arrow-circle-right"></i></a>
</div>
</div>

<div class="col-lg-3 col-6">

<div class="small-box bg-success">
<div class="inner">
<h3>${n2}<sup style="font-size: 20px">개</sup></h3>
<p>접수완료</p>
</div>
<div class="icon">
<i class="ion ion-stats-bars"></i>
</div>
<a href="#" class="small-box-footer">More info <i class="fas fa-arrow-circle-right"></i></a>
</div>
</div>

<div class="col-lg-3 col-6">

<div class="small-box bg-warning">
<div class="inner">
<h3>${n3}<sup style="font-size: 20px">개</sup></h3>
<p>처리중</p>
</div>
<div class="icon">
<i class="ion ion-person-add"></i>
</div>
<a href="#" class="small-box-footer">More info <i class="fas fa-arrow-circle-right"></i></a>
</div>
</div>

<div class="col-lg-3 col-6">

<div class="small-box bg-danger">
<div class="inner">
<h3>${n5}<sup style="font-size: 20px">개</sup></h3>
<p>후속조치</p>
</div>
<div class="icon">
<i class="ion ion-pie-graph"></i>
</div>
<a href="#" class="small-box-footer">More info <i class="fas fa-arrow-circle-right"></i></a>
</div>
</div>

</div>
</div>
</section>

<!------- To Do List ----->

<div class="col-lg-6 col-6" style="width: 50%; float: left;">
<div class="card">
<div class="card-header">
<h3 class="card-title">
<i class="ion ion-clipboard mr-1"></i>
To Do List
</h3>
<div class="card-tools">
<ul class="pagination pagination-sm">
<li class="page-item"><a href="#" class="page-link">&laquo;</a></li>
<li class="page-item"><a href="#" class="page-link">1</a></li>
<li class="page-item"><a href="#" class="page-link">2</a></li>
<li class="page-item"><a href="#" class="page-link">3</a></li>
<li class="page-item"><a href="#" class="page-link">&raquo;</a></li>
</ul>
</div>
</div>

```

```

</div>

<div class="card-body">
<ul class="todo-list" data-widget="todo-list">

<c:forEach items="{todoList}" var="list">

<li>
<span class="handle">
<i class="fas fa-ellipsis-v"></i>
<i class="fas fa-ellipsis-v"></i>
</span>
<div class="icheck-primary d-inline ml-2">
<input type="checkbox" value="" name="todo6" id="todoCheck6">
<label for="todoCheck6"></label>
</div>
<span class="text">${list.todo}</span>
<small class="badge badge-secondary"><i class="far fa-clock"></i>${list.tdue}</small>
<div class="tools">
<i class="fas fa-edit"></i>
<i class="fas fa-trash-o"></i>
</div>
</li>

</c:forEach>

<div class="card-footer clearfix">

<div class="form-group">
<div class="input-group">
<div class="input-group-prepend">
<span class="input-group-text">
<i class="far fa-calendar-alt"></i>
</span>
</div>
<input type="text" class="form-control float-right tdue" id="reservation">
</div>

</div>

<div class="input-group input-group-sm">
<input type="text" id="todo" class="form-control">
<span class="input-group-append">

<button type="button" onclick="javascript:addtodo()" class="btn btn-primary btn-flat">등록</button>
</span>
</div>

</div>

</div>

</div>

<!------- To Do List END ----->

<!------- Direct Chat ----->

<div class="col-lg-6 col6" style="width: 50%; float: right;">

<div class="card direct-chat direct-chat-primary">
<div class="card-header">
<h3 class="card-title">고객센터</h3>
<div class="card-tools">
<span title="3 New Messages" class="badge badge-primary">3</span>
<button type="button" class="btn btn-tool" data-card-widget="collapse">
<i class="fas fa-minus"></i>
</button>
<button type="button" class="btn btn-tool" title="Contacts" data-widget="chat-pane-toggle">
<i class="fas fa-comments"></i>
</button>
<button type="button" class="btn btn-tool" data-card-widget="remove">
<i class="fas fa-times"></i>
</button>
</div>
</div>

```

```

<div class="card-body">

<div class="direct-chat-messages">

<c:forEach items="${chatList}" var="chat">

<c:if test="${chat.bwriter ne 'admin'}">
<div class="direct-chat-msg">
<div class="direct-chat-infos clearfix">
<span class="direct-chat-name float-left">${chat.bwriter}</span>
<span class="direct-chat-timestamp float-right">${chat.bdate}</span>
</div>



<div class="direct-chat-text">
${chat.bcontent}
</div>

</div>
</c:if>
<c:if test="${chat.bwriter eq 'admin'}">
<div class="direct-chat-msg right">
<div class="direct-chat-infos clearfix">
<span class="direct-chat-name float-right">${chat.bwriter}</span>
<span class="direct-chat-timestamp float-left">${chat.bdate}</span>
</div>



<div class="direct-chat-text">
${chat.bcontent}
</div>

</div>
</c:if>
</c:forEach>

</div>

</div>

<div class="card-footer">
<form action="#" method="post">
<div class="input-group">
<input type="text" name="message" placeholder="Type Message ..." class="form-control">
<span class="input-group-append">
<button type="button" class="btn btn-primary">Send</button>
</span>
</div>
</form>
</div>

</div>
</div>
<!------- Direct Chat END ----->

<!------- form end ----->

</div>
</div>
</div>
</div>
</div>
<%% include file="footer.jsp"%>
</body>

<script>

function addtodo() {
    todo = $("#todo").val();
    tdue = $(".tdue").val();

    $.ajax({
        type:"POST",
        url:"/addTodo",
        data:{

```

```

        todo : todo,
        tdue : tdue
    },
    beforeSend : function(xhr)
    {
        /*데이터를 전송하기 전에 헤더에 csrf값을 설정한다. */
        xhr.setRequestHeader("${_csrf.headerName}", "${_csrf.token}");
    },
    success:function(result) {
        alert("등록 성공")
        window.location.reload();
    },
    error:function(request,status,error) {
        alert("code:" + request.status + "\n" + "message:" + request.responseText + "\n" + "error:" + error);
    }
}

})

}
</script>

<script>
$(function () {
    //Initialize Select2 Elements
    $('#select2').select2()

    //Initialize Select2 Elements
    $('#select2bs4').select2({
        theme: 'bootstrap4'
    })

    //Datemask dd/mm/yyyy
    $('#datemask').inputmask('dd/mm/yyyy', { 'placeholder': 'dd/mm/yyyy' })
    //Datemask2 mm/dd/yyyy
    $('#datemask2').inputmask('mm/dd/yyyy', { 'placeholder': 'mm/dd/yyyy' })
    //Money Euro
    $('[data-mask]').inputmask()

    //Date picker
    $('#reservationdate').datetimepicker({
        format: 'L'
    });

    //Date and time picker
    $('#reservationdatetime').datetimepicker({ icons: { time: 'far fa-clock' } });

    //Date range picker
    $('#reservation').daterangepicker()
    //Date range picker with time picker
    $('#reservationtime').daterangepicker({
        timePicker: true,
        timePickerIncrement: 30,
        locale: {
            format: 'MM/DD/YYYY hh:mm A'
        }
    })
    //Date range as a button
    $('#daterange-btn').daterangepicker(
        {
            ranges : {
                'Today' : [moment(), moment()],
                'Yesterday' : [moment().subtract(1, 'days'), moment().subtract(1, 'days')],
                'Last 7 Days' : [moment().subtract(6, 'days'), moment()],
                'Last 30 Days' : [moment().subtract(29, 'days'), moment()],
                'This Month' : [moment().startOf('month'), moment().endOf('month')],
                'Last Month' : [moment().subtract(1, 'month').startOf('month'), moment().subtract(1, 'month').endOf('month')]
            },
            startDate: moment().subtract(29, 'days'),
            endDate : moment()
        },
        function (start, end) {
            $('#reportrange span').html(start.format('MMMM D, YYYY') + ' - ' + end.format('MMMM D, YYYY'))
        }
    )

    //Timepicker
    $('#timepicker').datetimepicker({
        format: 'LT'
    })

    //Bootstrap Duallistbox
    $('#duallistbox').bootstrapDualListbox()

    //Colorpicker
    $('#my-colorpicker1').colorpicker()
    //color picker with addon
    $('#my-colorpicker2').colorpicker()

```

```

$($('.my-colorpicker2').on('colorpickerChange', function(event) {
    $($('.my-colorpicker2 .fa-square').css('color', event.color.toString()));
}))

$("input[data-bootstrap-switch]").each(function(){
    $(this).bootstrapSwitch('state', $(this).prop('checked'));
})

})
// BS-Stepper Init
document.addEventListener('DOMContentLoaded', function () {
    window.stepper = new Stepper(document.querySelector('.bs-stepper'))
})

// DropzoneJS Demo Code Start
Dropzone.autoDiscover = false

// Get the template HTML and remove it from the document
var previewNode = document.querySelector("#template")
previewNode.id = ""
var previewTemplate = previewNode.parentNode.innerHTML
previewNode.parentNode.removeChild(previewNode)

var myDropzone = new Dropzone(document.body, { // Make the whole body a dropzone
    url: "/target-url", // Set the url
    thumbnailWidth: 80,
    thumbnailHeight: 80,
    parallelUploads: 20,
    previewTemplate: previewTemplate,
    autoQueue: false, // Make sure the files aren't queued until manually added
    previewsContainer: "#previews", // Define the container to display the previews
    clickable: ".fileinput-button" // Define the element that should be used as click trigger to select files.
})

myDropzone.on("addedfile", function(file) {
    // Hookup the start button
    file.previewElement.querySelector(".start").onclick = function() { myDropzone.enqueueFile(file) }
})

// Update the total progress bar
myDropzone.on("totaluploadprogress", function(progress) {
    document.querySelector("#total-progress .progress-bar").style.width = progress + "%"
})

myDropzone.on("sending", function(file) {
    // Show the total progress bar when upload starts
    document.querySelector("#total-progress").style.opacity = "1"
    // And disable the start button
    file.previewElement.querySelector(".start").setAttribute("disabled", "disabled")
})

// Hide the total progress bar when nothing's uploading anymore
myDropzone.on("queuecomplete", function(progress) {
    document.querySelector("#total-progress").style.opacity = "0"
})

// Setup the buttons for all transfers
// The "add files" button doesn't need to be setup because the config
// `clickable` has already been specified.
document.querySelector("#actions .start").onclick = function() {
    myDropzone.enqueueFiles(myDropzone.getFilesWithStatus(Dropzone.ADDED))
}
document.querySelector("#actions .cancel").onclick = function() {
    myDropzone.removeAllFiles(true)
}
// DropzoneJS Demo Code End
</script>

<script src="/resources/admin/plugins/select2/js/select2.full.min.js"></script>

<script src="/resources/admin/plugins/bootstrap4-duallistbox/jquery.bootstrap-duallistbox.min.js"></script>

<script src="/resources/admin/plugins/moment/moment.min.js"></script>
<script src="/resources/admin/plugins/inputmask/jquery.inputmask.min.js"></script>

<script src="/resources/admin/plugins/daterangepicker/daterangepicker.js"></script>

<script src="/resources/admin/plugins/bootstrap-colorpicker/js/bootstrap-colorpicker.min.js"></script>

<script src="/resources/admin/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>

<script src="/resources/admin/plugins/bootstrap-switch/js/bootstrap-switch.min.js"></script>

<script src="/resources/admin/plugins/bs-stepper/js/bs-stepper.min.js"></script>

<script src="/resources/admin/plugins/dropzone/min/dropzone.min.js"></script>

```

</html>

## ▼ SummerNote

### addBoard.jsp

게시판 등록

제목

내용

Hello stand alone ui

유형

선택하세요

```
<%@ include file="../header.jsp"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://www.springframework.org/security/tags"
    prefix="sec"%>
<head>
<title>게시판 등록</title>

</head>
<body class="text-center">

    <!-- Content Wrapper. Contains page content -->
    <div class="content-wrapper">
        <!-- Content Header (Page header) -->
        <div class="content-header">
            <div class="container-fluid">
                <div class="row mb-2">
                    <div class="col-sm-6">
                        <h1 class="m-0">게시판 등록</h1>
                    </div>
                    <!-- /.col -->
                    <div class="col-sm-6">
                        <ol class="breadcrumb float-sm-right">
                            <li class="breadcrumb-item"><a href="#">홈</a></li>
                            <li class="breadcrumb-item active">게시판 등록</li>
                        </ol>
                    </div>
                    <!-- /.col -->
                </div>
            </div>
            <!-- /.content-header -->

            <!-- Main content -->
            <div class="content">
```



```

<div class="container-fluid">
  <div class="row">
    <div class="col-lg-12">

<!------- form ----->
<fieldset>
  <form:form modelAttribute="NewBoard" action="./addBoard?${_csrf.parameterName}=${_csrf.token}" class="form-horizontal" method="POST">

    <form:input path="bwriter" type="hidden" value="admin" class="form-control" />

    <div class="card-body">
      <div class="form-group">
        <label for="inputName">제목</label>
        <form:input path="bttitle" class="form-control" />
      </div>
      <div class="form-group">
        <label for="inputDescription">내용</label>
        <form:textarea path="bcontent" id="summernote" class="form-control" rows="10"/>
      </div>
      <div class="form-group">
        <label for="inputStatus">유형</label>
        <form:select path="bcate" class="form-control custom-select">
          <option selected disabled>선택하세요</option>
          <option>버그처리</option>
          <option>신규기능</option>
          <option>기타</option>
        </form:select>
      </div>
    </div>

    <div class="row" style="padding-bottom: 30px; padding-left: 30px;">
      <a href="#" class="btn btn-secondary">취소</a>
      <input style="margin-left: 10px;" type="submit" value="등록" class="btn btn-success float-right">
    </div>
  </form:form>
</fieldset>

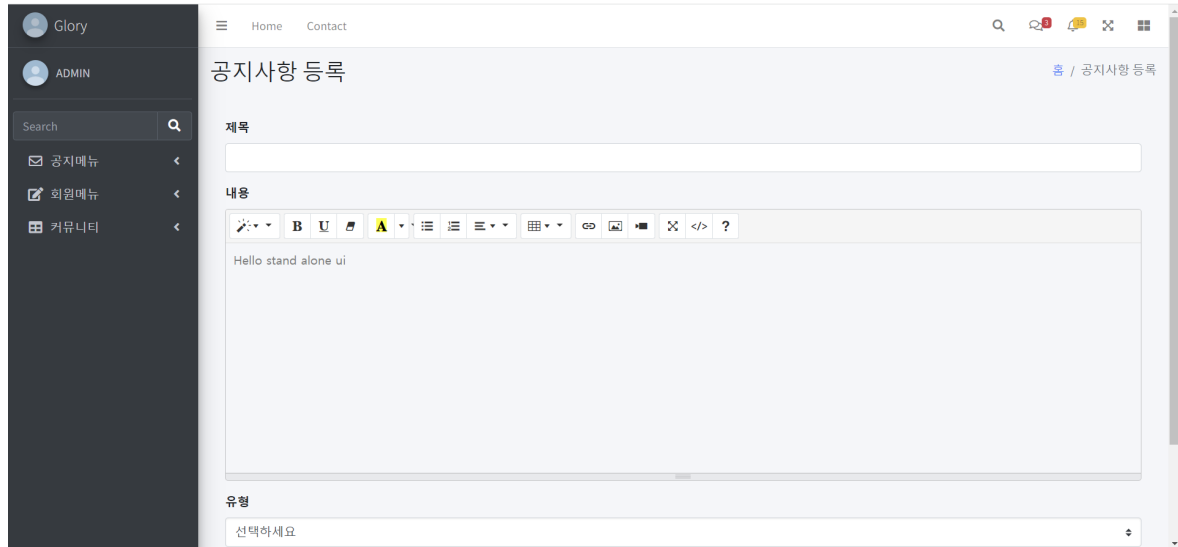
<!------- form end ----->
    </div>
  </div>
</div>
</div>

<%@ include file="../footer.jsp"%>
</body>
<link href="https://cdn.jsdelivr.net/npm/summernote@0.8.18/dist/summernote-lite.min.css" rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/summernote@0.8.18/dist/summernote-lite.min.js"></script>
<script>
  $('#summernote').summernote({
    placeholder: 'Hello stand alone ui',
    tabsize: 5,
    height: 300,
    toolbar: [
      ['style', ['style']],
      ['font', ['bold', 'underline', 'clear']],
      ['color', ['color']],
      ['para', ['ul', 'ol', 'paragraph']],
      ['table', ['table']],
      ['insert', ['link', 'picture', 'video']],
      ['view', ['fullscreen', 'codeview', 'help']]
    ]
  });
</script>

</html>

```

**addNotice.jsp**



```

<%@ include file="../header.jsp"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://www.springframework.org/security/tags"
    prefix="sec"%>
<head>
<title>공지사항 등록</title>

</head>
<body class="text-center">

    <!-- Content Wrapper. Contains page content -->
    <div class="content-wrapper">
        <!-- Content Header (Page header) -->
        <div class="content-header">
            <div class="container-fluid">
                <div class="row mb-2">
                    <div class="col-sm-6">
                        <h1 class="m-0">공지사항 등록</h1>
                    </div>
                    <!-- /.col -->
                    <div class="col-sm-6">
                        <ol class="breadcrumb float-sm-right">
                            <li class="breadcrumb-item"><a href="#">홈</a></li>
                            <li class="breadcrumb-item active">공지사항 등록</li>
                        </ol>
                    </div>
                    <!-- /.col -->
                </div>
            </div>
        </div>
        <!-- Main content -->
        <div class="content">
            <div class="container-fluid">
                <div class="row">
                    <div class="col-lg-12">

                        <!-- form -->
                        <fieldset>
                            <form modelAttribute="NewNotice"
                                action="/addNotice?${_csrf.parameterName}=${_csrf.token}"
                                class="form-horizontal" method="post">

                                <form:input path="nwriter" type="hidden" value="admin"
                                    class="form-control" />
                                <div class="card-body">
                                    <div class="form-group">
                                        <label for="inputName">제목</label>
                                        <form:input path="ntitle" class="form-control" />
                                    </div>
                                </div>
                            </form>
                        </fieldset>
                    </div>
                </div>
            </div>
        </div>
    </div>

```

```

        <div class="form-group">
            <label for="inputDescription">내용</label>
            <form:textarea path="ncontent" id="summernote" class="form-control" rows="10" />
        </div>
        <div class="form-group">
            <label for="inputStatus">유형</label>
            <form:select path="ncate" class="form-control custom-select">
                <option selected disabled>선택하세요</option>
                <option>일반</option>
                <option>행사</option>
                <option>기타</option>
            </form:select>
        </div>
    </div>

    <div class="row"
        style="padding-bottom: 30px; padding-left: 30px;">
        <a href="#" class="btn btn-secondary">취소</a> <input
            style="margin-left: 10px;" type="submit" value="등록"
            class="btn btn-success float-right">
    </div>
</form:form>
</fieldset>

<!-- form end -->
</div>
</div>
</div>
</div>
</div>

<%@ include file="../footer.jsp"%>
</body>

<link href="https://cdn.jsdelivr.net/npm/summernote@0.8.18/dist/summernote-lite.min.css" rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/summernote@0.8.18/dist/summernote-lite.min.js"></script>
<script>
    $('#summernote').summernote({
        placeholder: 'Hello stand alone ui',
        tabsize: 5,
        height: 300,
        toolbar: [
            ['style', ['style']],
            ['font', ['bold', 'underline', 'clear']],
            ['color', ['color']],
            ['para', ['ul', 'ol', 'paragraph']],
            ['table', ['table']],
            ['insert', ['link', 'picture', 'video']],
            ['view', ['fullscreen', 'codeview', 'help']]
        ]
    });
</script>
</html>

```

## main.jsp

Glory [아파트 관리 시스템]

게시판

번호	분류	제목	상태	
8	버그처리	가입인사.	3	상세보기
9	버그처리	안녕하세요.	3	상세보기
26		글	1	상세보기
27		게시판.	1	상세보기

Showing 1 to 4 of 4 entries

Previous 1 Next

게시물 상세보기

게시판.

카카오 로그인

댓글 등록

댓글

게시판 등록

## 제 목

Title

## 내용

A screenshot of the Notion toolbar. The top row contains icons for a link, bold (B), italic (I), highlight (A), bulleted list, numbered list, table of contents, and a grid. The bottom row contains icons for a link, image, video, link removal (X), code (</>), and a help/question mark (?). Below the toolbar, the text "Hello stand alone ui" is visible in the main content area.

유형

선택하세요

등록

```

<@page import="org.springframework.web.bind.annotation.ModelAttribute"%>
<@page import="com.glory.board.Board"%>
<% page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<% taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<% taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<% taglib uri="http://www.springframework.org/security/tags"
    prefix="sec"%>
<% taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn"%>
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Glorcy</title>

<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">

<link rel="stylesheet" href="/resources/admin/plugins/fontawesome-free/css/all.min.css">

<link rel="stylesheet" href="/resources/admin/dist/css/adminlte.min.css?v=3.2.0">

<link rel="stylesheet"
    href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">
<link rel="stylesheet"
    href="/resources/admin/plugins/fontawesome-free/css/all.min.css">
<link rel="stylesheet"
    href="/resources/admin/plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
<link rel="stylesheet"
    href="/resources/admin/plugins/datatables-responsive/css/responsive.bootstrap4.min.css">
<link rel="stylesheet"
    href="/resources/admin/plugins/datatables-buttons/css/buttons.bootstrap4.min.css">
<link rel="stylesheet"
    href="/resources/admin/dist/css/adminlte.min.css?v=3.2.0">

```

```

<script src="https://code.jquery.com/jquery-3.6.3.min.js"
  integrity="sha256-pvPw+upLPUjgMX0G+800xUf+/Im1MZjXxxg0cBQBxU="
  crossorigin="anonymous"></script>

<body class="hold-transition layout-top-nav">
<div class="wrapper">

<nav class="main-header navbar navbar-expand-md navbar-light navbar-white">
<div class="container">
<a href="/resources/admin/index3.html" class="navbar-brand">
Glory</span>
</a>
<button class="navbar-toggler order-1" type="button" data-toggle="collapse" data-target="#navbarCollapse" aria-controls="navbarCol
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse order-3" id="navbarCollapse">

<ul class="navbar-nav">
<li class="nav-item">
<a href="/main" class="nav-link">Home</a>
</li>

<sec:authorize access="hasRole('ROLE_ADMIN')">
<li class="nav-item">
<a href="/admin" class="nav-link">관리메뉴</a>
</li>
<li class="nav-item dropdown">
<button class="btn btn-dark dropdown-toggle"
  data-bs-toggle="dropdown" aria-expanded="false">관리자메뉴</button>
<ul class="dropdown-menu dropdown-menu-dark">
<li><a class="dropdown-item" href="/users/list">회원목록</a></li>
<li><a class="dropdown-item" href="/cars/add">제품등록</a></li>
<li><a class="dropdown-item" href="/cars/product">제품관리</a></li>
</ul>
</li>
</sec:authorize>

</ul>

<form class="form-inline ml-0 ml-md-3">
<div class="input-group input-group-sm">
<input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search">
<div class="input-group-append">
<button class="btn btn-navbar" type="submit">
<i class="fas fa-search"></i>
</button>
</div>
</div>
</form>
</div>

<ul class="order-1 order-md-3 navbar-nav navbar-no-expand ml-auto">

<li class="nav-item dropdown">
<a class="nav-link" data-toggle="dropdown" href="#">
<i class="fas fa-comments"></i>
<span class="badge badge-danger navbar-badge">3</span>
</a>
<div class="dropdown-menu dropdown-menu-lg dropdown-menu-right">
<a href="#" class="dropdown-item">

<div class="media">

<div class="media-body">
<h3 class="dropdown-item-title">
Brad Diesel
<span class="float-right text-sm text-danger"><i class="fas fa-star"></i></span>
</h3>
<p class="text-sm">Call me whenever you can...</p>
<p class="text-sm text-muted"><i class="far fa-clock mr-1"></i> 4 Hours Ago</p>
</div>
</div>

</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">

<div class="media">

<div class="media-body">
<h3 class="dropdown-item-title">
John Pierce
<span class="float-right text-sm text-muted"><i class="fas fa-star"></i></span>
</h3>

```

```

<p class="text-sm">I got your message bro</p>
<p class="text-sm text-muted"><i class="far fa-clock mr-1"></i> 4 Hours Ago</p>
</div>
</div>

</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">

<div class="media">

<div class="media-body">
<h3 class="dropdown-item-title">
Nora Silvester
<span class="float-right text-sm text-warning"><i class="fas fa-star"></i></span>
</h3>
<p class="text-sm">The subject goes here</p>
<p class="text-sm text-muted"><i class="far fa-clock mr-1"></i> 4 Hours Ago</p>
</div>
</div>

</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item dropdown-footer">See All Messages</a>
</div>
</li>

<li class="nav-item dropdown">
<a class="nav-link" data-toggle="dropdown" href="#">
<i class="far fa-bell"></i>
<span class="badge badge-warning navbar-badge">15</span>
</a>
<div class="dropdown-menu dropdown-menu-lg dropdown-menu-right">
<span class="dropdown-header">15 Notifications</span>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">
<i class="fas fa-envelope mr-2"></i> 4 new messages
<span class="float-right text-muted text-sm">3 mins</span>
</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">
<i class="fas fa-users mr-2"></i> 8 friend requests
<span class="float-right text-muted text-sm">12 hours</span>
</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item">
<i class="fas fa-file mr-2"></i> 3 new reports
<span class="float-right text-muted text-sm">2 days</span>
</a>
<div class="dropdown-divider"></div>
<a href="#" class="dropdown-item dropdown-footer">See All Notifications</a>
</div>
</li>
<li class="nav-item">
<a class="nav-link" data-widget="control-sidebar" data-slide="true" href="#" role="button">
<i class="fas fa-th-large"></i>
</a>
</li>
</ul>
</div>
</nav>

<div class="content-wrapper">

<div class="content-header">
<div class="container">
<div class="row mb-2">
<div class="col-sm-6">
<h1 class="m-0"> Glory <small>[아파트 관리 시스템]</small></h1>
</div>
<div class="col-sm-6">
<ol class="breadcrumb float-sm-right">
<li class="breadcrumb-item"><a href="#">Home</a></li>
</ol>
</div>
</div>
</div>
</div>
</div>

<div class="content">
<div class="container">
<div class="row">

<!------- 게시판 ----->

```

```

<div class="col-lg-6">
<div class="card">
<div class="card card-primary card-outline">
<div class="card-header">
<h5 class="card-title m-0">게시판</h5>
</div>
<div class="card-body">

<table id="example2" class="table table-bordered table-striped">
<thead>
<tr>
<th>번호</th>
<th>분류</th>
<th>제목</th>
<th>상태</th>
<th></th>
</tr>
</thead>
<tbody>
<c:forEach items="${boardList}" var="board">
<tr>
<td>${board.bid}</td>
<td>${board.bcate}</td>
<td>${board.btitle}</td>
<td>${board.bstatus}</td>
<td><a href="javascript:detailBoard("${board.bid}", "${board.btitle}", "${fn:replace(board.bcontent, '"', '\\')}")" class="btn-su
</tr>
</c:forEach>

</tbody>
</table>

</div>
</div>
</div>
</div>

<!------- 게시판 END ----->

<!------- 게시물 상세보기 ----->
<div class="col-lg-6">

<div class="card">
<div class="card card-primary card-outline">
<div class="card-header">

<h5 class="card-title m-0">게시물 상세보기</h5>
</div>
<div class="card-body">
<h3 class="card-title" id="btitle">Title</h3>
<br>
<p class="card-text" id="bcontent">Content</p>

<div class="input-group input-group-sm">
<input type="text" id="reply" class="form-control">
<input type="hidden" id="bid" class="form-control">
<span class="input-group-append">

<button type="button" onclick="javascript:addReply()" class="btn btn-primary btn-flat">댓글 등록</button>
</span>
</div>
</div>
</div>
</div>
</div>
<div class="card card-primary card-outline">
<div class="card-header">
<h5 class="card-title m-0">댓글</h5>
</div>
<div class="card-body">

```

```

<p class="card-text replies" id="replies">내용</p>
</div>
</div>
</div>

<!------- 게시물 상세보기 END ----->

<!------- 게시판 등록 ----->

<div class="col-lg-6">

<div class="card">
<div class="card card-primary card-outline">
<div class="card-header">

<h5 class="card-title m-0">게시판 등록</h5>
</div>
<div class="card-body">

<div class="col-sm">

<div class="form-group">
<label>제목</label>
<input id="smalltitle" class="form-control" placeholder="Title" />
</div>
<div class="form-group">
<label>내용</label>
<textarea id="smallcontent" class="form-control" rows="3" placeholder="Content"></textarea>
</div>
<div class="form-group">
<label for="inputStatus">유형</label>
<select id="smallcate" class="form-control custom-select">
<option selected>선택하세요</option>
<option>버그처리</option>
<option>신규기능</option>
<option>기타</option>
</select>
</div>
</div>
<input id="smallwriter" type="hidden" value="admin" class="form-control">
<input style="margin-left: 10px;" type="button" onclick="javascript:addBoard()" value="등록" class="btn btn-success float-right">

</div>
</div>
</div>
</div>

<!------- 게시판 등록 END ----->

</div>

</div>
</div>
</div>

<aside class="control-sidebar control-sidebar-dark">

</aside>

<footer class="main-footer">

<div class="float-right d-none d-sm-inline">
Anything you want
</div>

<strong>Copyright &copy; 2014-2021 <a href="https://adminlte.io">AdminLTE.io</a>.</strong> All rights reserved.
</footer>
</div>

<script src="/resources/admin/plugins/jquery/jquery.min.js"></script>

<script src="/resources/admin/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>

<script src="/resources/admin/dist/js/adminlte.min.js?v=3.2.0"></script>

<script

```



```

    src="/resources/admin/plugins/datatables/jquery.dataTables.min.js"></script>
<script
    src="/resources/admin/plugins/datatables-bs4/js/dataTables.bootstrap4.min.js"></script>
<script
    src="/resources/admin/plugins/datatables-responsive/js/dataTables.responsive.min.js"></script>
<script
    src="/resources/admin/plugins/datatables-responsive/js/responsive.bootstrap4.min.js"></script>
<script
    src="/resources/admin/plugins/datatables-buttons/js/dataTables.buttons.min.js"></script>
<script
    src="/resources/admin/plugins/datatables-buttons/js/buttons.bootstrap4.min.js"></script>
<script src="/resources/admin/plugins/jszip/jszip.min.js"></script>
<script src="/resources/admin/plugins/pdfmake/pdfmake.min.js"></script>
<script src="/resources/admin/plugins/pdfmake/vfs_fonts.js"></script>
<script
    src="/resources/admin/plugins/datatables-buttons/js/buttons.html5.min.js"></script>
<script
    src="/resources/admin/plugins/datatables-buttons/js/buttons.print.min.js"></script>
<script
    src="/resources/admin/plugins/datatables-buttons/js/buttons.colVis.min.js"></script>

<script>
$(function() {
    $('#example1').DataTable(
    {
        "responsive" : true,
        "lengthChange" : false,
        "autoWidth" : false,
        "buttons" : [ "copy", "csv", "excel", "pdf", "print",
            "colvis" ]
    }).buttons().container().appendTo(
        'example1_wrapper .col-md-6:eq(0)');
    $('#example2').DataTable({
        "paging" : true,
        "lengthChange" : false,
        "searching" : false,
        "ordering" : true,
        "info" : true,
        "autoWidth" : false,
        "responsive" : true,
    });
});

function addBoard() {
    btitle = $("#smalltitle").val();
    bcontent = $("#smallcontent").val();
    bwriter = $("#smallwriter").val();
    bcate = $("#smallcate").val();

    $.ajax({
        type:"POST",
        url:"/addBoard",
        data:{
            btitle : btitle,
            bcontent : bcontent,
            bwriter : bwriter,
            bcate : bcate
        },
        beforeSend : function(xhr)
        {
            /*데이터를 전송하기 전에 헤더에 csrf값을 설정한다. */
            xhr.setRequestHeader("${_csrf.headerName}", "${_csrf.token}");
        },
        success:function(result) {
            alert("등록 성공")
            window.location.reload();
        },
        error:function(request,status,error) {
            alert("code:" + request.status + "\n" + "message:" + request.responseText + "\n" + "error:" + error);
        }
    })
}

function detailBoard(bid, btitle, bcontent) {
    document.getElementById('btitle').innerHTML = btitle;
    document.getElementById('bcontent').innerHTML = bcontent;
    document.getElementById('bid').value = bid;

    $.ajax({
        type:"POST",
        url:"/ajaxDetail",

```

```

        data:{
            bid : bid
        },
        /*Jackson Driver 의존성을 추가하여야 한다. */
        dataType:"JSON",
        beforeSend : function(xhr)
        { /*데이터를 전송하기 전에 헤더에 csrf값을 설정한다. */
            xhr.setRequestHeader("${_csrf.headerName}", "${_csrf.token}");
        },
        success:function(result) {
            var str = "";
            for(var i in result){
                str+='<li class="list-group-item">'
                str+='<div class="list-group-item list-group-item-secondary small">'
                str+='<span>' + result[i].bcontent + '</span>'
                str+='<span class="small float-end">' + result[i].bwriter + '</span>'
                str+='</div>'
                str+='<div class="list-group-item">' + result[i].bdate + '</div>'
                str+='</li>'
            }
            $(".replies").html(str);
            document.getElementById('replies').innerHTML=str;
        },
        error:function(request,status,error) {
            alert("code:" + request.status + "\n" + "message:" + request.responseText + "\n" + "error:" + error);
        }
    })

}

function addReply() {
    reply = $("#reply").val();
    bid = $("#bid").val();

    $.ajax({
        type:"POST",
        url:"/addReply",
        data:{
            bid : bid,
            bwriter : "비회원",
            bcontent : reply,
        },
        beforeSend : function(xhr)
        { /*데이터를 전송하기 전에 헤더에 csrf값을 설정한다. */
            xhr.setRequestHeader("${_csrf.headerName}", "${_csrf.token}");
        },
        success:function(result) {
            alert("등록 성공")
            window.location.reload();
        },
        error:function(request,status,error) {
            alert("code:" + request.status + "\n" + "message:" + request.responseText + "\n" + "error:" + error);
        }
    })

}

}

</script>

</body>

<link href="https://cdn.jsdelivr.net/npm/summernote@0.8.18/dist/summernote-lite.min.css" rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/summernote@0.8.18/dist/summernote-lite.min.js"></script>
<script>
    $('#smallcontent').summernote({
        placeholder: 'Hello stand alone ui',
        tabsize: 5,
        height: 100,
        toolbar: [
            ['style', ['style']],
            ['font', ['bold', 'underline', 'clear']],
            ['color', ['color']],
            ['para', ['ul', 'ol', 'paragraph']],
            ['table', ['table']],
            ['insert', ['link', 'picture', 'video']],
            ['view', ['fullscreen', 'codeview', 'help']]
        ]
    });
</script>
</html>

```

## JSTL 출력문의 특수문자 처리하기(JSTL & EL)

### [Java] JSTL 로 replace 사용하여 문자열 치환하기

프로젝트를 진행하면서 특수문자가 들어가는 경우가 생긴다. 특수문자를 그대로 저장하거나 출력하면 내가 원하는 대로 보여지지 않고 작동하지 않게되는데 특수문자 따옴표('),쌍따옴표(""),부등호(<,>)들이 특히 그렇다. 그래서 저장을 특수문자에서 코드표로 치환하여서 DB에 저장하고 저장한 데이터를 출력해서 보여줄때 다시 치환하

<https://nec2r.tistory.com/54>



### 문자열

<https://ko.javascript.info/string>



## ▼ Google Mail

### pom.xml 설정

```
<!-- https://mvnrepository.com/artifact/org.springframework/spring-context-support -->
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-context-support</artifactId>
  <version>5.3.19</version>
</dependency>
<!-- https://mvnrepository.com/artifact/javax.mail/javax.mail-api -->
<dependency>
  <groupId>javax.mail</groupId>
  <artifactId>javax.mail-api</artifactId>
  <version>1.6.2</version>
</dependency>
<!-- https://mvnrepository.com/artifact/com.sun.mail/javax.mail -->
<dependency>
  <groupId>com.sun.mail</groupId>
  <artifactId>javax.mail</artifactId>
  <version>1.6.2</version>
</dependency>
```

### web.xml 설정

```
BoardController.java  addBoard.jsp  GoogleMailServiceImpl.java  MailService.java  web.xml  mail-context.xml  member_SQL.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <web-app version="2.5" xmlns="http://java.sun.com/xml/ns/javaee"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4   xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd">
5
6   <!-- The definition of the Root Spring Container shared by all Servlets and Filters -->
7   <context-param>
8     <param-name>contextConfigLocation</param-name>
9     <param-value>/WEB-INF/spring/root-context.xml
10    /WEB-INF/spring/security-context.xml
11    /WEB-INF/spring/mail-context.xml
12
13   </param-value>
14   </context-param>
15
16   <!-- Creates the Spring Container shared by all Servlets and Filters -->
17   <listener>
18     <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>
19   </listener>
```

### mail-context.xml 설정

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd">

    <bean id="mailSender" class="org.springframework.mail.javamail.JavaMailSenderImpl">
        <property name="host" value="smtp.gmail.com"/>
        <property name="port" value="587"/>
        <property name="username" value="difbfl4750@gmail.com"/>
        <property name="password" value="애플 비밀번호"/>
        <property name="javaMailProperties">
            <props>
                <prop key="mail.smtp.auth">true</prop>
                <prop key="mail.smtp.starttls.enable">true</prop>
                <prop key="mail.transport.protocol">smtp</prop>
                <prop key="mail.debug">true</prop>
                <prop key="mail.smtp.ssl.trust">smtp.gmail.com</prop>
                <prop key="mail.smtp.ssl.protocol">TLSv1.2</prop>
            </props>
        </property>
    </bean>

</beans>
```

## BoardController.java

```
@Autowired
private MailService mailService;

@Autowired
private SqlSessionTemplate sqlSessionTemplate;

@PostMapping("/addBoard")
public String submitAddBoardForm(@ModelAttribute("NewBoard") Board board) {

    boardService.setNewBoard(board);
    Member member = this.sqlSessionTemplate.selectOne("member.select_email", board.getBwriter());

    String to = member.getMemail();
    String subject = board.getBwriter() + "님의 게시물이 등록되었습니다.";
    String body = board.getBcontent();

    mailService.sendMail(to, subject, body);

    return "redirect:/boards/list";
}

@ResponseBody
@RequestMapping("/replyNew")
public void replyNew(@RequestParam Map<String, Object> map) {

    boardService.replyNewBoard(map);

    String boardWriter = (String) map.get("boardWriter");

    Member member = this.sqlSessionTemplate.selectOne("member.select_email", boardWriter);

    String to = member.getMemail();
    String subject = (String) map.get("bwriter") + "님이 댓글을 등록하였습니다.";
    String body = (String) map.get("bcontent");

    mailService.sendMail(to, subject, body);
}
```

## MailService.java

```
package com.glory.mail;

public interface MailService {

    void sendMail(String to, String subject, String body);
}
```

## GoogleMailServiceImpl.java

```
package com.glory.mail;

import javax.mail.internet.MimeMessage;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.mail.javamail.JavaMailSender;
import org.springframework.mail.javamail.MimeMessageHelper;
import org.springframework.scheduling.annotation.Async;
import org.springframework.stereotype.Service;

@Service
public class GoogleMailServiceImpl implements MailService {

    @Autowired
    private JavaMailSender mailSender;

    @Async //비동기 메소드 작성 어노테이션
    @Override
    public void sendMail(String to, String subject, String body) {
        MimeMessage message = mailSender.createMimeMessage();

        try {
            MimeMessageHelper messageHelper = new MimeMessageHelper(message, true, "UTF-8");
            messageHelper.setFrom("difbfl4750@gmail.com", "고객센터");
            messageHelper.setSubject(subject);
            messageHelper.setTo(to);
            messageHelper.setText(body);
            mailSender.send(message);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

## member\_SQL.xml

```
<select id="select_email" parameterType="String" resultType="com.glory.member.Member">
    <![CDATA[
        SELECT * FROM glorymember WHERE username = #{username}
    ]]>
</select>
```

## board.jsp

```
<%@ include file="../header.jsp"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://www.springframework.org/security/tags"
    prefix="sec"%>
<head>
<title>글 상세보기</title>
</head>
<body class="text-center">

    <!-- Content Wrapper. Contains page content -->
    <div class="content-wrapper">
        <!-- Content Header (Page header) -->
        <div class="content-header">
            <div class="container-fluid">
                <div class="row mb-2">
                    <div class="col-sm-6">
                        <h1 class="m-0">글 상세보기</h1>
                    </div>
                    <!-- /.col -->
                    <div class="col-sm-6">
                        <ol class="breadcrumb float-sm-right">
```

```

        <li class="breadcrumb-item"><a href="#">홈</a></li>
        <li class="breadcrumb-item active">글 상세보기</li>
    </ol>
</div>
<!-- /.col -->
</div>
<!-- /.row -->
</div>
<!-- /.container-fluid -->
</div>
<!-- /.content-header -->

<!-- Main content -->
<div class="content">
    <div class="container-fluid">
        <div class="row">
            <div class="col-lg-12">

<!------- form ----->
<fieldset>

    <div class="card-body">
        <div class="form-group">
            <label for="inputName">제목</label>
            ${board.btitle}
        </div>
        <div class="form-group">
            <label for="inputDescription">작성자</label>
            ${board.bwriter}
        </div>
        <div class="form-group">
            <label for="inputStatus">유형</label>
            ${board.bcate}
        </div>
        <div class="form-group">
            <label for="inputStatus">날짜</label>
            ${board.bdate}
        </div>
        <div class="form-group">
            <label for="inputDescription">내용</label>
            ${board.bcontent}
        </div>
    </div>

    <div class="row" style="padding-bottom: 30px; padding-left: 30px;">
        <a onclick="history.back()" class="btn btn-secondary">이전으로</a>
    </div>
</fieldset>

<!-- 댓글 -->
<div class="card">
    <div class="card-body">
        댓글 리스트
        <br><br>
        <!-- <b>${cnt}</b>개의 답변이 있습니다.</b><br> --%>
        <!-- <c:forEach items="${replyList}" var="reply"> --%>

        <!-- <div class="card"> -->
        <!-- <div class="card-header"> -->
        <!-- ${reply.bwriter} --%>
        <!-- </div> -->
        <!-- <div class="card-body"> -->
        <!-- <blockquote class="blockquote mb-0"> -->
        <!-- <p>${reply.bcontent}</p> --%>
        <!-- <footer class="blockquote-footer">${reply.bdate}</footer> --%>
        <!-- </blockquote> -->
        <!-- </div> -->
        <!-- </div> -->

        <!-- <br> -->

        <!-- </c:forEach> --%>

        <!-- 댓글 등록 -->
        <sec:authentication property="principal" var="user"/>
        <input id="boardWriter" type="hidden" value="${board.bwriter}" />

```

```

<input id="bwriter" type="hidden" value="${user.username}" />
<input id="bid" type="hidden" name="bid" value="${board.bid}" />
<textarea name="bcontent" id="bcontent" rows="5" class="form-control"></textarea>
<input type="button" class="btn btn-primary my-2" onclick="replyNewFunction()" value="댓글 등록">

</div>
</div>
<!-- 댓글 -->

<!------- form end ----->
</div>
</div>
</div>
</div>
</div>
</div>

<%% include file="../footer.jsp"%>
</body>

<script type="text/javascript">

function replyNewFunction() {
$.ajax({
type:"POST",
url:"/boards/replyNew",
data:{
boardWriter : document.getElementById('boardWriter').value,
bid : document.getElementById('bid').value,
bwriter : document.getElementById('bwriter').value,
bcontent : document.getElementById('bcontent').value,
},
beforeSend : function(xhr)
{ /*데이터를 전송하기 전에 헤더에 csrf값을 설정한다*/
xhr.setRequestHeader("${_csrf.headerName}", "${_csrf.token}");
},
success:function(result) {
alert("답변 등록 성공");
},
error:function(request, status, error) {
alert(request.status + " " + request.responseText);
}

})

window.location.reload();
}

function checkFunction(bid, check) {
$.ajax({
type:"POST",
url:"/boards/check",
data:{
bid : bid,
check : check
},
beforeSend : function(xhr)
{ /*데이터를 전송하기 전에 헤더에 csrf값을 설정한다*/
xhr.setRequestHeader("${_csrf.headerName}", "${_csrf.token}");
},
success:function(result) {
window.location.reload();
},
error:function(request, status, error) {
alert(request.status + " " + request.responseText);
}

})

}

</script>

</html>

```

## ▼ Exception(예외 처리)

## 1. [@ExceptionHandler]를 이용한 예외 처리

### ErrorController.java

```
package com.glory.main;

import org.springframework.web.bind.annotation.ControllerAdvice;
import org.springframework.web.bind.annotation.ExceptionHandler;
import org.springframework.web.servlet.ModelAndView;

@ControllerAdvice
public class ErrorController {

    @ExceptionHandler(ArithmeticException.class)
    private ModelAndView handleErrorCommon(Exception e) {
        ModelAndView modelAndView = new ModelAndView();
        modelAndView.addObject("exception", e);
        modelAndView.setViewName("exception/errorCommon");

        return modelAndView;
    }
}
```

### ExceptionHandlerController.java

```
package com.glory.main;

import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;

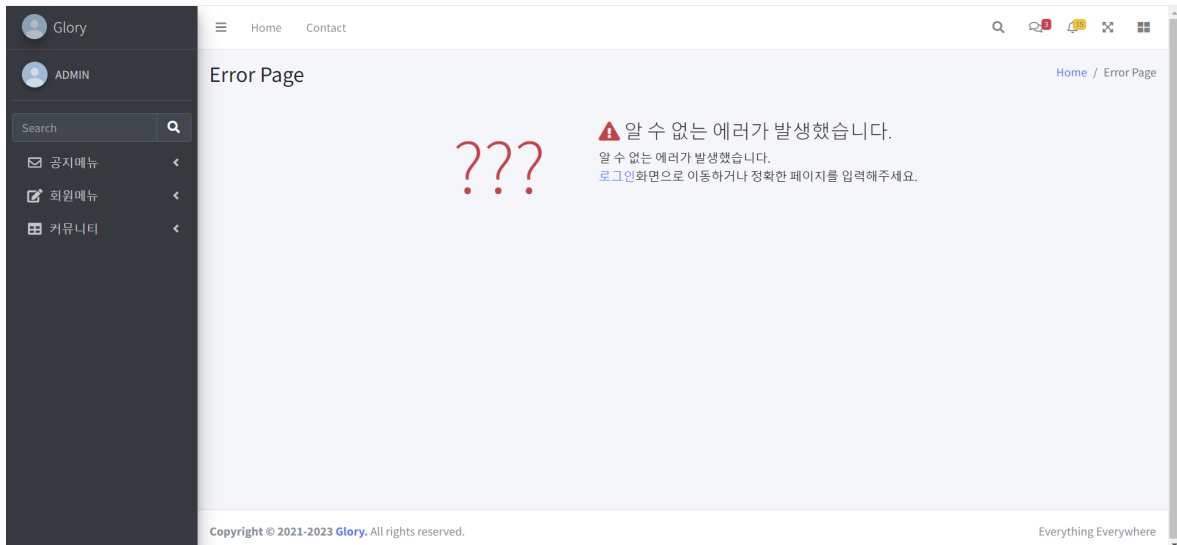
@Controller
public class ExceptionController {

    @RequestMapping("/errorcommon")
    public void errorCommon() {

        // throw로 강제 예외 발생
        throw new ArithmeticException("강제 예외 발생!!!");
    }
}
```

### errorCommon.jsp





```
<%@ include file="../header.jsp"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://www.springframework.org/security/tags"
    prefix="sec"%>
<head>
<title>Error Page</title>

</head>
<body class="text-center">

<div class="content-wrapper">

<section class="content-header">
<div class="container-fluid">
<div class="row mb-2">
<div class="col-sm-6">
<h1>Error Page</h1>
</div>
<div class="col-sm-6">
<ol class="breadcrumb float-sm-right">
<li class="breadcrumb-item"><a href="#">Home</a></li>
<li class="breadcrumb-item active">Error Page</li>
</ol>
</div>
</div>
</div>
</section>

<section class="content">
<div class="error-page">
<h2 class="headline text-danger">???

```

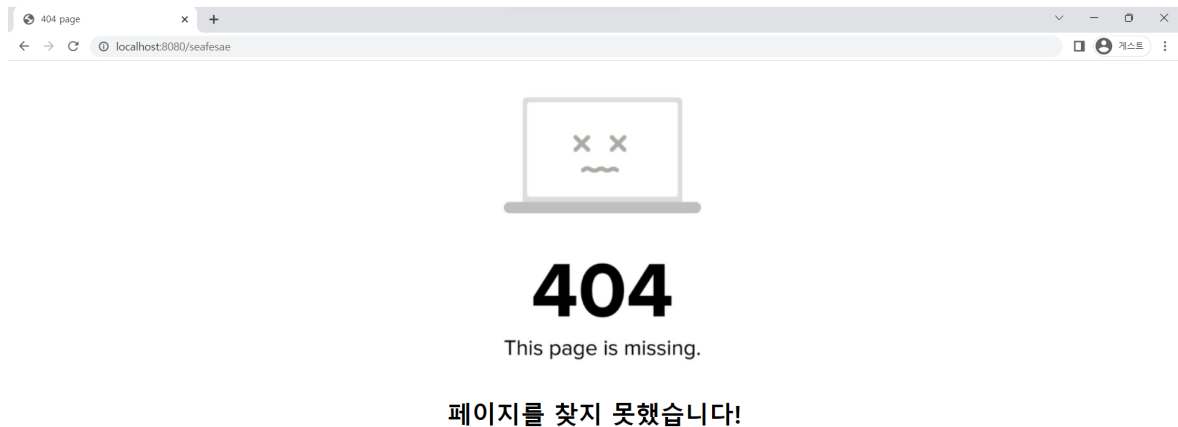
## 2. web.xml 설정을 이용한 예외 처리

### web.xml 설정

```
<error-page>
  <error-code>404</error-code>
  <location>/WEB-INF/views/error.jsp</location>
</error-page>

<error-page>
  <error-code>500</error-code>
  <location>/WEB-INF/views/exception/500error.jsp</location>
</error-page>
```

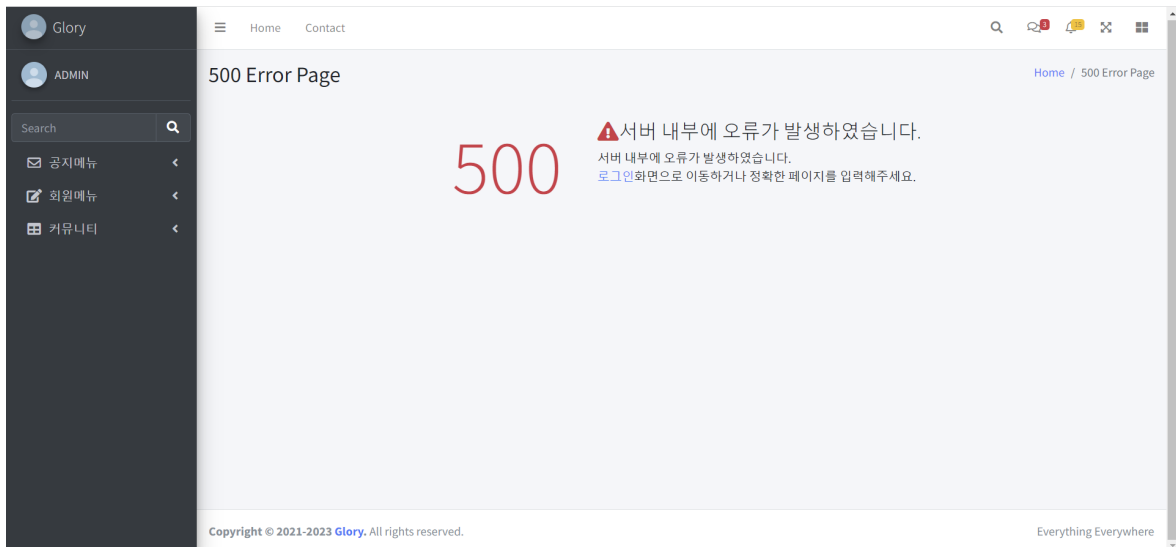
### error.jsp



```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>404 page</title>
</head>
<body>
<div style="text-align: center;">


<h1>페이지를 찾지 못했습니다!</h1>
</div>
</body>
</html>
```

### 500error.jsp



```
<%@ include file="../header.jsp"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@ taglib uri="http://www.springframework.org/security/tags"
    prefix="sec"%>
<head>
<title>500 Error Page</title>

</head>
<body class="text-center">

<div class="content-wrapper">

<section class="content-header">
<div class="container-fluid">
<div class="row mb-2">
<div class="col-sm-6">
<h1>500 Error Page</h1>
</div>
<div class="col-sm-6">
<ol class="breadcrumb float-sm-right">
<li class="breadcrumb-item"><a href="#">Home</a></li>
<li class="breadcrumb-item active">500 Error Page</li>
</ol>
</div>
</div>
</div>
</section>

<section class="content">
<div class="error-page">
<h2 class="headline text-danger">500</h2>
<div class="error-content" style="width: 120%;">
<h3><i class="fas fa-exclamation-triangle text-danger"></i>서버 내부에 오류가 발생하였습니다.</h3>
<p>
서버 내부에 오류가 발생하였습니다.<br>
<a href="#">로그인</a>화면으로 이동하거나 정확한 페이지를 입력해주세요.
</p>
<form class="search-form">
<div class="input-group">
<div class="input-group-append">
</div>
</div>

</form>
</div>
</div>

</section>

</div>

<%@ include file="../footer.jsp"%>
</body>
</html>
```

---