UI아키텍처설계포트폴리오평가과제

김보성

스프링(Spring) 프레임워크와 마이바티스(Mybatis)를 연동하는 서비스

실행 흐름:

실행 흐름: 게시글 목록조회, 게시글 목록 페이지별로 출력 처리, 게시글 상세보기/첨부파일 다운로드/게시글 수정/게시글 삭제, 새 게시글 등록/파일첨부, 인기 게시글 3개 조회, 페이지 처리가 적용된 게시글 검색 서비스가 구동되게 코드를 구현하시오.

1. home.jsp

• jquery ajax 기능을 사용하여, 페이지 로딩시 조회수 많은 인기 게시글 3개를 조회해서 테이블로 출력 및 제목 클릭시 상세보기 로 연결함

```
    home.jsp 
    □ menubar.jsp

        //조회수 많은 인기 게시글 3개 자동 출력되게 함
  42
        $.ajax({
  43
          url: "${ pageContext.request.contextPath }/btop3.do",
  44
          type: "post",
  45
          dataType: "json",
  46
          success: function(data){
  47
            console.log("success: " + data);
  48
  49
            //object ==> string
            var jsonStr = JSON.stringify(data);
  50
  51
            //string ==> ison
  52
            var ison = JSON.parse(isonStr);
  53
  54
            var values = "";
  55
            for(var i in ison.list){
  56
              values += " " + ison.list[i].bid
                   + "<a href='${ pageContext.request.contextPath }/bdetail.do?bid="
  57
                   + json.list[i].bid + "'>"
  58
                   + decodeURIComponent(json.list[i].btitle).replace(\/+/gi, " ")
  59
                   + "</a>  " + json.list[i].bcount
  60
  61
                   + "";
  62
            } //for in
  63
            $("#top board").html($("#top board").html() + values);
  64
  65
  66
          error: function(jqXHR, textstatus, errorthrown){
            console.log("error: " + jqXHR + ", " + textstatus + ", "
  67
                 + errorthrown):
  68
  69
  70
  71 )); //iquery document ready
  72 </script>
El Consola 17 N Droblems Markers T Droperties S Compate Droperties & Search & Git Staning & History W Interactive Palace
```



2. filedownloadview.java

 게시글의 첨부파일을 다운로드 처리하는 뷰 클래스 작성함.

```
250⊜
       @RequestMapping("bfdown.do")
       public ModelAndView fileDownMethod(
           @RequestParam("ofile") String originalFilename,
252
253
           @RequestParam("rfile") String renameFilename.
           HttpServletRequest request) {
254
255
         String savePath = request.getSession().getServletContext()
256
             .getRealPath("resources/board files");
257
         File renameFile = new File(savePath + "\\" + renameFilename);
258
259
         Map<String, Object> model = new HashMap<String, Object>();
260
         model.put("renameFile", renameFile);
261
         model.put("originalFilename", originalFilename);
262
         return new ModelAndView("filedown2", "downFile", model);
263
264
265
       --> Resolves views selected for rendering by @Controllers to .jsp resources in the /WEB-INF/views directory -->
19⊝
       <beans:bean class="ora.springframework.web.servlet.view.InternalResourceViewResolver">
          <beans:property name= "prefix" value= "/WEB-INF/views/" />
9i 20
0i21
          <beans:property name= "suffix" value= ".isp" />
9i 22
          <beans:property name= "order" value= "1" />
       </beans:bean>
 23
 24
 25⊜
       <!-- 파일 다운을 위한 뷰리즐버 지정 (JsonView 도 해당됨)
 26
         주의: id 속성을 지정하지 않는다.
 27
          여러 개의 뷰리졸버를 지정할 때는 실행 순서를 정해야 함
 28
          파일 다운 뷰리졸버가 반드시 맨 처음 실행되게 순서를 지정해야 함
 29
          즉, 컨트롤러 메소드가 리턴하는 뷰이름과 동일한 뷰클래스(bean)가 있으면
 30
         자동으로 해당 뷰클래스(파일다운로드 처리용 뷰클래스)를 실행함
 31
        -->
 32⊖
       <beans:bean
 33
         class= "org.springframework.web.servlet.view.BeanNameViewResolver">
          <beans:property name= "order" value= "0" />
9i34
 35
       </beans:bean>
 36
```

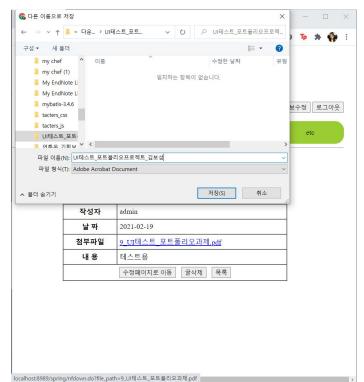
249

//게시글 첨부파일 다운로드 요청 처리용

```
package com.ict.spring.common;
  3 mport java.io.File; ...
 15 //스프링에서 BeanNameViewResolver 에 의해 실행되는 뷰클래스가 되려면
 16 //반드시 스프링이 제공하는 AbstractView 를 상속받은 후손들래스여야 함
 17 @Component("filedown")
 18 public class FileDownloadView extends AbstractView {
 19
 20⊝
       @Override
       protected void renderMergedOutputModel(Map<String, Object> model,
 22
            HttpServletRequest request,
 23
            HttpServletResponse response) throws Exception {
 24
         // 컨트롤러에서 뷰리즐버로 리턴한 model 정보가 자동 전달됨
         File downFile = (File)model.get("downFile");
 26
 27
         //한글 파일명 인코딩 처리를 위해 파일명만 추출함
 28
         String fileName = downFile.getName();
 29
 30
         response.setContentType("text/plain; charset=utf-8");
 31
         response.addHeader("Content-Disposition", "attachment; filename=\""
 32
              + new String(fileName.getBytes("utf-8"), "ISO-8859-1") + "\"");
 33
         response.setContentLength((int)downFile.length());
 34
 35
         //저장된 폴더에서 대상 파일을 읽어서, 요청한 클라이언트 브라우저로 보내기 위한
 36
         //입출력 스트림 생성함
 37
         OutputStream out = response.getOutputStream();
 38
 39
         try(FileInputStream fin = new FileInputStream(downFile);){
 40
           FileCopyUtils.copy(fin, out);
 41
         }catch(Exception e) {
 42
            e.printStackTrace();
 43
 45
         out.flush():
 46
         out.close();
 47
 48
49 }
 50
```

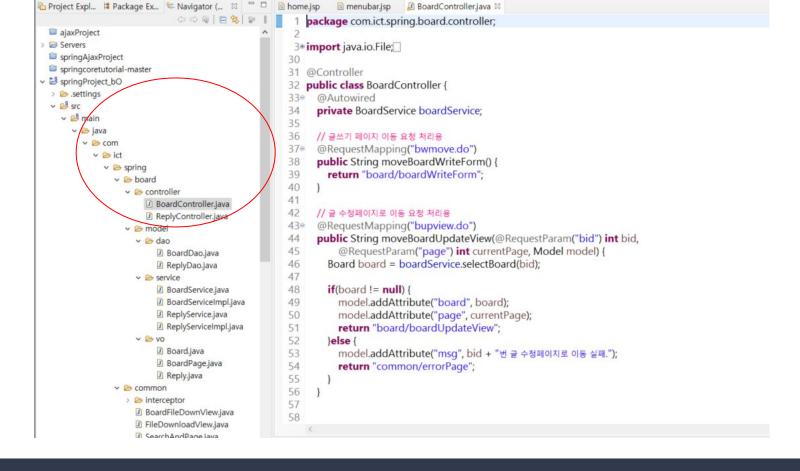
전 슬라이드의 코드 작성 결과





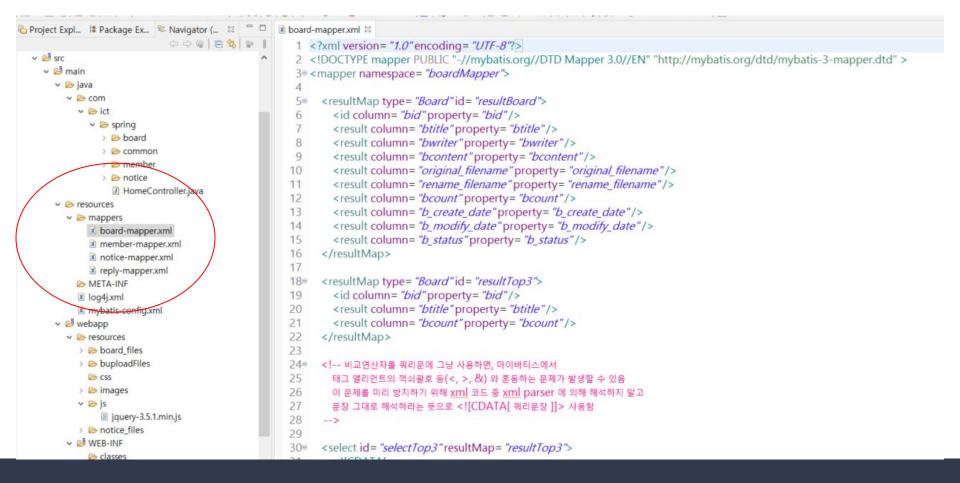
3. BoardController.java

• src/main/java 폴더 아래 해당 패키지 아래에 컨트롤러 클래스 만듦



4. board-mapper.xml

src/main/resources/mappers 폴더 아래에 Board 테이블 sql 구문에 대한 앨리먼트들을 작성함.



5. Board.java

- src/main/java 폴더 아래에 해당 패키지 안에 클래스 만듦
- Serializable, 기본/매개변수 있는 생성자, getters and setters, toString() overriding 작성함

```
public int getNid() {
                                                                                                                                         return nid:
package com.ict.spring.notice.model.vo;
                                                                                                       public void setNid(int nid) {
                                                                                                                                                  this.nid = nid; }
import java.sql.Date;
                                                                                                       public String getNtitle() {
                                                                                                                                                  return ntitle;
                                                                                                       public void setNtitle(String ntitle) {
                                                                                                                                                           this.ntitle = ntitle:
public class Notice implements java.io.Serializable {
                                                                                                       public String getNwriter() {
                                                                                                                                                  return nwriter; }
         private static final long serialVersionUID = 2222L;
                                                                                                       public void setNwriter(String nwriter) {
                                                                                                                                                           this.nwriter = nwriter; }
                                                                                                       public String getNcontent() {
         private int nid;
                                                                                                                                                  return ncontent:
        private String ntitle;
                                                                                                       public void setNcontent(String ncontent) {
                                                                                                                                                                    this.ncontent = ncontent;
         private String nwriter;
                                                                                                       public Date getN_create_date() {
                                                                                                                                                           return n create date: }
         private String ncontent;
                                                                                                       public void setN_create_date(Date n_create_date) {
                                                                                                                                                                             this.n_create_date =
        private Date n_create_date;
                                                                                              n_create_date; }
        private Date n_modify_date;
                                                                                                       public Date getN_modify_date() {
                                                                                                                                                           return n_modify_date; }
        private String file_path;
                                                                                                       public void setN_modify_date(Date n_modify_date) {
                                                                                                                                                                             this.n_modify_date =
         public Notice() {}
                                                                                              n modify date; }
                                                                                                       public String getFile_path() {
                                                                                                                                                  return file path;
        public Notice(int nid, String ntitle, String nwriter, String ncontent, Date n_create_date, Date
                                                                                                       public void setFile path(String file path) {
                                                                                                                                                                    this.file path = file path;
n_modify_date,
                                                                                                       public static long getSerialversionuid() {
                                                                                                                                                                    return serialVersionUID
                          String file_path) {
                                                                                                       @Override
                 super();
                 this.nid = nid;
                                                                                                       public String toString() {
                 this.ntitle = ntitle:
                                                                                                               return "Notice [nid=" + nid + ", ntitle=" + ntitle + ", nwriter=" + nwriter + ",
                 this.nwriter = nwriter:
                                                                                              ncontent=" + ncontent
                 this.ncontent = ncontent;
                                                                                                                                 + ", n_create_date=" + n_create_date + ", n_modify_date=" +
                 this.n_create_date = n_create_date;
                                                                                              n_modify_date + ", file_path=" + file_path
                 this.n modify date = n modify date;
                 this.file_path = file_path;
```

6. NoticeService.java

• 인터페이스로작성함

```
board-mapper.xml

☑ BoardServiceImpl.java

                                        package com.ict.spring.board.model.service;
 3. import java.util.ArrayList;
 9
    public interface BoardService {
      ArrayList < Board > selectTop3();
      int getListCount();
      ArrayList < Board > selectList(int currentPage, int limit);
13
      Board selectBoard(int bid);
14
      int addReadCount(int bid);
15
      int insertBoard(Board board);
16
17
      int updateBoard(Board board);
      int deleteBoard(int bid);
18
19
20
      ArrayList < Board > selectSearchTitle(SearchAndPage searches);
      ArrayList < Board > selectSearchWriter(SearchAndPage searches);
21
22
      ArrayList < Board > selectSearchDate(SearchAndPage searches);
23
      int getSearchTitleListCount(String keyword);
24
25
      int getSearchWriterListCount(String keyword);
26
      int getSearchDateListCount(SearchDate dates);
27
28 }
29
```

7. BoardServiceImpl.java

- BoardService 인터페이스를 상속받아 선언된 메소드들을 오버라이딩 처리 함.
- BoardDao 의 메소드를 호출함

```
    BoardServiceImpl.java 
    BoardService.java
    BoardSer
             package com.ict.spring.board.model.service;
      3 import java.util.ArrayList;
  13 @Service("boardService")
  14 public class BoardServiceImpl implements BoardService {
                       @Autowired
                       private BoardDao boardDao;
                       @Override
                       public ArrayList < Board > selectTop3() {
19
                              return boardDao.selectTop3();
  20
  21
  22
  23⊜
                       @Override
                       public int getListCount() {
24
                               return boardDao.getListCount();
  25
  26
  289
                       @Override
29
                       public ArrayList < Board > selectList(int currentPage, int limit) {
                               return boardDao.selectList(currentPage, limit);
   30
  31
  32
  33⊜
                       @Override
                       public Board selectBoard(int bid) {
34
  35
                              return boardDao.selectBoard(bid);
  36
  37
  389
                       @Override
                      public int addReadCount(int bid) {
                              return boardDao.addReadCount(bid);
   40
  41
  42
  439
                       @Override
                       public int insertBoard(Board board) {
44
                               return boardDao.insertBoard(board);
   45
   46
```

```
🗷 board-mapper.xml 🔃 BoardServiceImpl.java 🕮 🚨 BoardService.java
 52
 53⊕
       @Override
       public int deleteBoard(int bid)
 55
          return boardDao.deleteBoard(bid);
 56
 589
       @Override
       public ArrayList < Board > selectSearchTitle(SearchAndPage searches) {
          return boardDao.selectSearchTitle(searches);
 60
 61
 62
 63€
       @Override
       public ArrayList < Board > selectSearchWriter(SearchAndPage searches) {
△64
 65
          return boardDao.selectSearchWriter(searches);
 66
 67
 689
       @Override
       public ArrayList < Board > selectSearchDate(SearchAndPage searches) {
         return boardDao.selectSearchDate(searches);
 70
 71
 72
 73⊜
       @Override
       public int getSearchTitleListCount(String keyword) {
          return boardDao.getSearchTitleListCount(keyword);
75
76
77
 78⊜
       @Override
       public int getSearchWriterListCount(String keyword) {
          return boardDao.getSearchWriterListCount(keyword);
 80
 81
 82
 83⊜
       @Override
       public int getSearchDateListCount(SearchDate dates) {
         return boardDao.getSearchDateListCount(dates);
 85
 86
 87
 88
```

29

8. BoardDao.java

SqlSessionTemplate 를 사용하여
boardMapper 와 연동 실행하는 메소드를
작성함

```
☑ BoardDao.java 
☒

■ board-mapper.xml

■ BoardServiceImpl.java

                                              BoardService.java
     package com.ict.spring.board.model.dao;
   3. import java.util.ArrayList;
  15 @Repository("boardDao")
  16 public class BoardDao {
  179 @Autowired
       private SqlSessionTemplate sqlSession;
  19
        public ArrayList < Board > selectTop3() {
  209
          List < Board > list = sqlSession.selectList("boardMapper.selectTop3");
  21
  22
           return (ArrayList < Board > ) list;
  23
  24
  25
        public int getListCount() {
  269
          return sqlSession.selectOne("boardMapper.getListCount");
  27
  28
  29
  30
  310
        public ArrayList < Board > selectList(int currentPage, int limit) {
  32
          //전달된 값을 이용해서 출력할 시작형과 끝형을 계산함
          int startRow = (currentPage - 1) * limit -1;
  33
  34
           int endRow = startRow + limit -1;
  35
          List < Board > list = sqlSession.selectList("boardMapper.selectList",
  36
               new BoardPage(startRow, endRow));
 37
  38
          return (ArrayList < Board > ) list;
  39
  40
  41
  429
        public Board selectBoard(int bid) {
  43
           return sqlSession.selectOne("boardMapper.selectBoard", bid);
  44
  45
  46
        public int addReadCount(int bid) {
  470
  48
           return sqlSession.update("boardMapper.updateBCount", bid);
```

```
☑ BoardDao.java 
☒

        public me deletebourdine bidy [
          return sqlSession.update("boardMapper.changeBstatusN", bid);
 63
  64
  65
  66
  67€
        public ArrayList < Board > selectSearchTitle(SearchAndPage searches) {
          List<Board> list = sqlSession.selectList("boardMapper.searchTitle");
  68
  69
          return (ArrayList < Board > ) list;
  70
  71
  72
        public ArrayList < Board > selectSearchWriter(SearchAndPage searches) {
  730
          List < Board > list = sqlSession.selectList("boardMapper.searchWriter");
  74
  75
          return (ArrayList < Board > ) list;
  76
  77
  78
        public ArrayList < Board > selectSearchDate(SearchAndPage searches) {
          List<Board> list = sqlSession.selectList("boardMapper.searchDate");
  80
          return (ArrayList < Board > ) list;
  81
  82
  83
  84
        public int getSearchTitleListCount(String keyword) {
  85⊜
          return sqlSession.selectOne("boardMapper.getSearchTitleListCount", keyword);
  86
  87
  88
  89
  90
        public int getSearchWriterListCount(String keyword) {
  910
          return sqlSession.selectOne("boardMapper.getSearchWriterListCount", keyword);
  92
  93
  94
  95
  968
        public int getSearchDateListCount(SearchDate dates) {
  97
          return sqlSession.selectOne("boardMapper.getSearchDateListCount", dates);
  98
  99
```

9. Pilot Test

파일럿 사용성 테스트를 통해 구현된 서비스들을

View --> Controller --> Service --> Repository

순으로 시험 작동해 보고, 테스트 화면들 을 캡쳐하여 이미지 파일로 보고서에 추가함.

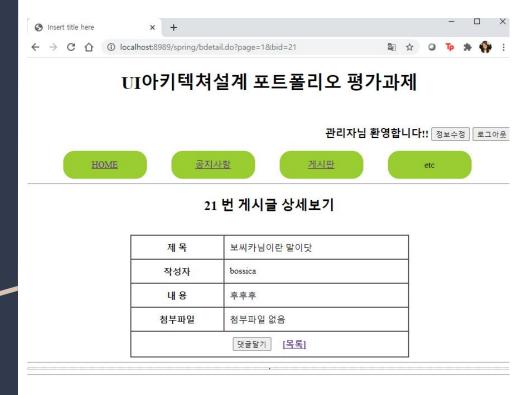
```
1 package com.ict.spring.notice.model.dao;
  2
  3⊕ import java.util.ArrayList; ...
 13 @Repository("noticeDao")
 14 public class NoticeDao {
       //스프링-마이바티스 연동 객체 연결함: root-context.xml 에 선언되어 있음
 169
        @Autowired
        private SqlSessionTemplate sqlSession;
 18
 19
       public NoticeDao() {}
 20
        public ArrayList < Notice > selectList(){
          List < Notice > list = sqlSession.selectList("noticeMapper.selectAll");
 22
          return (ArrayList<Notice>)list;
 24
 25
        public Notice selectOne(int nid) {
 26⊖
          return sqlSession.selectOne("noticeMapper.selectNotice", nid);
 27
 28
 29
        public int insertNotice(Notice notice) {
 30⊝
          return sqlSession.insert("noticeMapper.insertNotice", notice);
 349
        public int updateNotice(Notice notice) {
          return sqlSession.update("noticeMapper.updateNotice", notice);
 35
 36
 38⊜
       public int deleteNotice(int nid) {
 39
          return sqlSession.delete("noticeMapper.deleteNotice", nid);
 40
 41
 429
        public ArrayList < Notice > selectNewTop3(){
          List < Notice > list = sqlSession.selectList("noticeMapper.selectNewTop3");
 43
          return (ArrayList < Notice > ) list;
 44
 45
```

```
public ArrayList < Notice > selectSearchTitle(String keyword) {
48
         List < Notice > list = sqlSession.selectList("noticeMapper.searchTitle", keyword); //searchTitle = notice-mapper.xml 에 사용했던 id 명
49
                                                                                     // keyword는 전달할 인자 (매개변수)
50
         return (ArrayList < Notice > ) list;
51
52
53⊜
       public ArrayList < Notice > selectSearchWriter(String keyword) {
         List < Notice > list = sqlSession.selectList("noticeMapper.searchWriter", keyword); //searchWriter = notice-mapper.xml 에 사용했던 id 명
54
55
                                                                                        // keyword는 전달할 인자 (매개변수)
56
         return (ArrayList < Notice > ) list;
57
58
59⊜
       public ArrayList < Notice > selectSearchDate(SearchDate dates) {
         List < Notice > list = sqlSession.selectList("noticeMapper.searchDate", dates); //searchTitle = notice-mapper.xml 에 사용했던 id 명
60
61
                                                                                     // dates는 전달할 인자 (매개변수)
         return (ArrayList<Notice>)list;
62
63
64
```

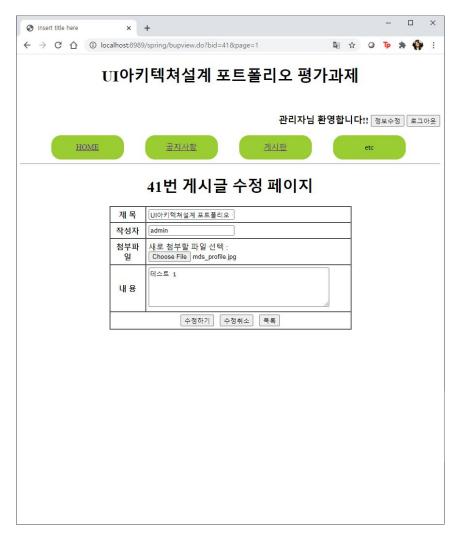
게시판 목록



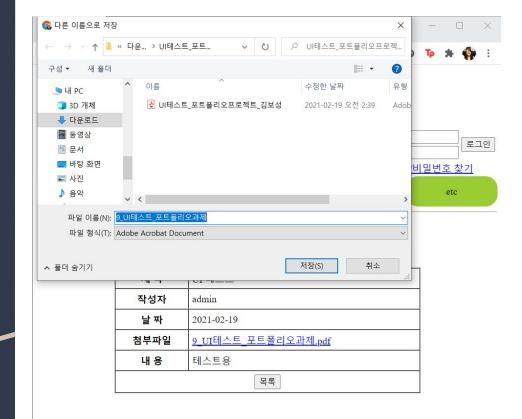
게시글 상<u>세보기</u>



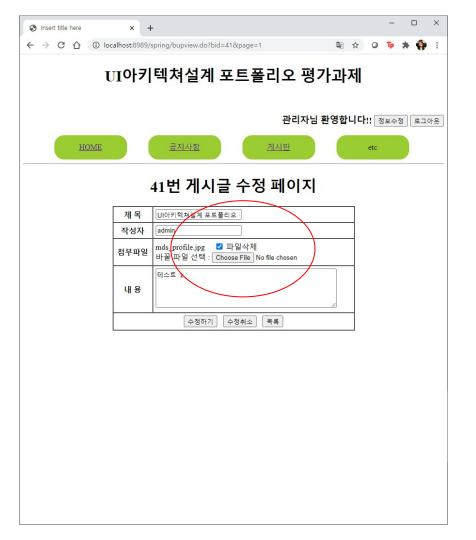
게시판 새 게시글 등록 / 파일첨부



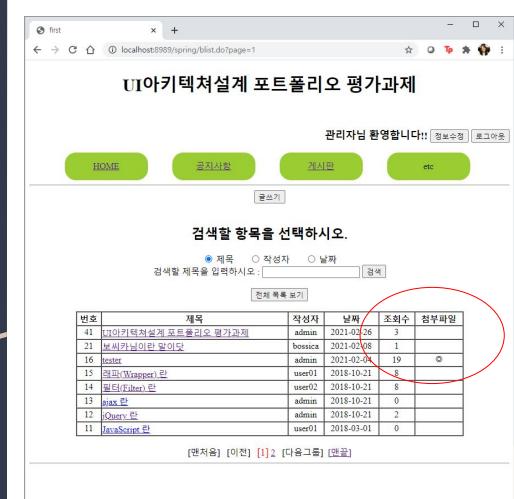
게시글 첨부파일 다<u>운로드</u>



게시글 첨부파일 수정



게시글 첨부파일 삭<u>제</u>



공지사항 검색 서비스 (제목)

