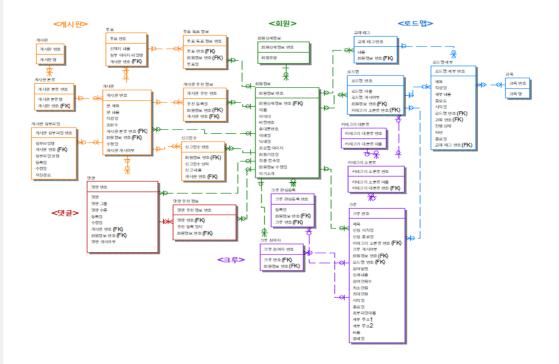
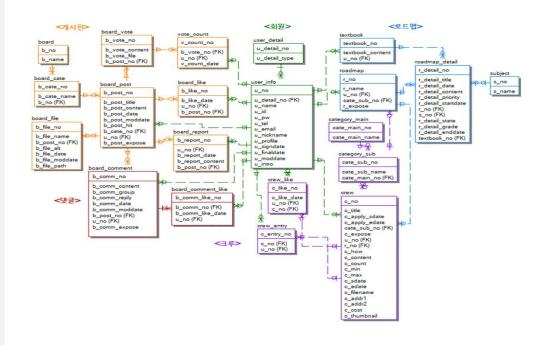
프로젝트 기술서

프로젝트 명	Triple A
포트폴리오 사이트주소	https://github.com/hyeoni11i/Project.git
개발 기간	2021.11.08 ~ 2021.12.06
투입인원	5명
주요 기술	 Spring Boot, Mybatis 사용 Java, MVC2 활용 개발 Ajax 활용 DB 접근 Oracle 11g 활용 기본 CRUD 구현
리뉴얼 목적	 코로나로 인해 등교하지 못하면서 학생들의 자기주도 학습능력 차이, 또래와의 공감대 형성 부족 등 여러가지 문제가 있다는 것을 기사로 접하고 조금이나마 학습에 도움이 되는 점을 찾다 가 기획하게 되었다.
본인의 역할	로드맵

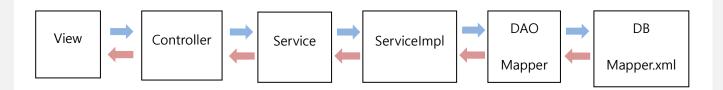
[논리적(Logical) DB 설계]



[물리적(Physical) DB 설계]



[구성 및 흐름]



▶ 나의 로드맵 리스트

- 1. 내가 생성한 로드맵 출력
- 2. 로드맵 생성하기
- 3. 로드맵 클릭 시 해당 세부 로드맵 페이지로 이동



[View]

1. Ajax로 저장기능 구현

```
/ 로드맨 저장
if($("#r_name").val() == ""){
    alert ("제목을 입력하세요!");
    return false;
                          } else{
   var r_name = $("#r_name").val();
                         $.ajax({
    url:"./roadmapWrite",
    type:"post",
                                                      ta:{
    "u_no":u_no,
    "cate_sub_no":cate_sub_no,
    "r_name":r_name
                                             success:function(data){
                                                         } else {
    chtml += "<div class='roadmap_cate'>" + data[i].categorySubVo.cate_sub_name + "</div>";
                                                                       chtml += "<div class='roadmap_name'>"+ data[i].roadmapVo.r_name +"</div>";
chtml += "</div></a>";
                                                         }

S(".roadmap_list").html(chtml);

S("#cate_sub_no").val("1");

S("#r_name").val("");

S('#myModal').hide();

location.href="./my_roadmap";
                                           },
error:function(){
alert("에러!");
                                  });//ajax
             }):// sa
     <div id="list_box">
                       <div id="category">
                                        <div id="list cate">
                                                           (li><a class="${ cate == 0 ? 'active' : '' }" href="./my_roadmap">전체</a><a class="${ cate == 0 ? 'active' : '' }" href="./my_roadmap?cate_sub_no=1">학습</a><a class="${ cate == 1 ? 'active' : '' }" href="./my_roadmap?cate_sub_no=1">학습</a><a class="${ cate == 3 ? 'active' : '' }" href="./my_roadmap?cate_sub_no=3">자격증</a><a class="${ cate == 5 ? 'active' : '' }" href="./my_roadmap?cate_sub_no=5">공모전</a><a class="${ cate == 21 ? 'active' : '' }" href="./my_roadmap?cate_sub_no=21">취미 및 기타</a>
                                                            </div>
                                         <div id="cate_button">
                                                           <button id="add_roadmap" onclick="new_Roadmap()">로드맵 생성하기</button>
                                        </div>
                       </div>
                        <div class="roadmap_List">
                                          <c:forEach items="${list}" var="roadmapCateSubVo">
                                                           \label{local-condition} $$ \operatorname{href}=\operatorname{"roadmap\_detail?u\_no} $$ \operatorname{categorySubVo.roadmapVo.u\_no} $$ \operatorname{cate\_sub\_no} $$ \operatorname{local-categorySubVo.cate\_sub\_no} $$ \operatorname{local-categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categorySubVo.categ
                                                                                                                                                                                       + \&r\_no = \$\{roadmapCateSubVo.roadmapVo.r\_no\} \&r\_name = \$\{roadmapCateSubVo.roadmapVo.r\_name\}"> \$r\_no = \$\{roadmapCateSubVo.roadmapVo.r\_name\}"> \$r\_no = \$\{roadmapCateSubVo.roadmapVo.r\_name\}"> \$r\_no = \$\{roadmapCateSubVo.roadmapVo.r\_name\}"> \$r\_no = \$\{roadmapCateSubVo.roadmapVo.r\_name\} "> \$r\_name = \$\{roadmapCateSubVo.roadmapVo.r\_name\} "> \$r\_name = \$\{roadmapCateSubVo.roadmapVo.r\_name\} "> \$r\_name = \$\{roadmapCateSubVo.roadmapVo.r\_name\} "> \$r\_name = \$
                                                                              <div.class="roadmap">
                                                                                               <c:if test="${roadmapCateSubVo.categorySubVo.cate_sub_name != '취미 및 기타'}">
                                                                                                                 <div class="roadmap_cate">${roadmapCateSubVo.categorySubVo.cate_sub_name}</div>
                                                                                               </c:if>
                                                                                               <c:if test="${roadmapCateSubVo.categorySubVo.cate_sub_name == '취미 및 기타'}">
                                                                                                                 <div class="roadmap_cate" style="width: 100px">${roadmapCateSubVo.categorySubVo.cate_sub_name}</div>
                                                                                               <div class="roadmap name">${roadmapCateSubVo.roadmapVo.r name}</div>
                                                           </a>
                                         </c:forEach>
                       </divs
     </div>
```

```
// 로드맵 리스트
@RequestMapping("/my_roadmap")
public String my_roadmap(RoadmapVo roadmapVo, Model model) {
    roadmapVo.setU_no((Integer)session.getAttribute("session_u_no"));
    List<RoadmapCateSubVo> list = roadmapListService.roadmapList(roadmapVo);
    model.addAttribute("list", list);
model.addAttribute("cate", roadmapVo.getCate_sub_no());
return "roadmap/my_roadmap";
// 로드맵 생성하기
@ResponseBody
@RequestMapping("/roadmapWrite")
public Map<String, Object> roadmapWrite(RoadmapVo roadmapVo) {
    int result = roadmapListService.roadmapWrite(roadmapVo);
    //System.out.println("result :
                                       + result);
    //roadmapVo.setCate_sub_no(0);
    List<RoadmapCateSubVo> list = roadmapListService.roadmapList(roadmapVo);
    Map<String, Object> map = new HashMap<String, Object>();
    map.put("list", list);
    map.put("roadmapVo", roadmapVo);
    return map;
}
```

[Service]

```
public interface RoadmapListService {

// 로드맵 리스트
List<RoadmapCateSubVo> roadmapList(RoadmapVo roadmapVo);

// 로드맵 생성하기
int roadmapWrite(RoadmapVo roadmapVo);

}
```

[ServiceImpl]

```
// 로드맵 리스트
@Override
public List<RoadmapCateSubVo> roadmapList(RoadmapVo roadmapVo) {
    roadmapVo.setU_no((Integer)session.getAttribute("session_u_no"));

    // 로드맵 리스트
    List<RoadmapCateSubVo> list = roadmapListMapper.selectRoadmapList(roadmapVo);

    return list;
}

// 로드맵 생성하기
@Override
public int roadmapWrite(RoadmapVo roadmapVo) {
    roadmapVo.setU_no((Integer)session.getAttribute("session_u_no"));
    int result = roadmapListMapper.insertRoadmap(roadmapVo);

    return result;
}
```

[Mapper]

```
@Mapper
public interface RoadmapListMapper {

    // 로드맵 리스트
    List<RoadmapCateSubVo> selectRoadmapList(RoadmapVo roadmapVo);

    // 로드맵 생성하기
    int insertRoadmap(RoadmapVo roadmapVo);
}
```

[Mapper.xml]

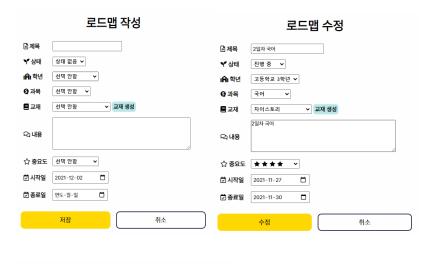
```
<!.. 로드면 생성하기 ->
cinsert id="insertRoadmap">
cinsert id="insertRoadmap.seq.currval from dual
cinsert id="categorySubVoNap" type="com.site.teami.vo.categorySubVo">
cinsert
cinsert
cinsert
cinsert
cinsert
column="cate_sub_nom" property="cate_sub_no" />
cinsert id="insertRoadmap.seq.currval from dual
cinsert
cinsert
column="cate_sub_nome" property="cate_sub_no" />
cinsert id="insertRoadmap.seq.currval from dual
cinsert
column="cate_sub_nome" property="cate_sub_no" />
cinsert id="insertRoadmap.seq.currval from dual
cinsertRoadmap.seq.currval from dual
cinsertRoadmap.seq.currval from dual
cinsertRoadmap.seq.currval from dual
cinsertRoadmap.seq.currval from dual
cinsertRoadmap.seq.curval from dual
cinsert id="insertRoadmap.seq.curval from dual
cinsertRoadmap.seq.curval from dual
cinsertRoadmap.seq.curval from dual
cinsertRoadmap.seq.curval from dual
cinsertRoadmap.seq.curval from
cinsertRoadmap.seq.curval from
cinsertRoadmap.seq.curval from
cin
```

[DAO]

```
@NoArgsConstructor
@AllArgsConstructor
                         @Data
                                                             @NoArgsConstructor
                         @NoArgsConstructor
public class RoadmapVo {
                                                             @AllArgsConstructor
                        @AllArgsConstructor
                                                             @Data
                         public class CategorySubVo {
   private int r_no;
                                                             public class RoadmapCateSubVo {
   private String r_name;
                             private int cate sub no;
   private String r_expose;
                                                                 private RoadmapVo roadmapVo;
                             private String cate_sub_name;
   private int u_no;
                             private int cate_main_no;
                                                                 private CategorySubVo categorySubVo;
   private int cate_sub_no; }
}
```

▶ 세부 로드맵 페이지







[View]

```
// 세부 로드맵 저장
if($("#r_detail_title").val() == ""){
  alert ("제목을 입력하세요!");
  return false;
                    } else{
                              var r_detail_title = $("#r_detail_title").val();
                   if(r_detail_startdate > r_detail_enddate){
    alert("시작일보다 종료일이 빠릅니다. 다시 선택하세요!");
$(".date_border").css("outline-color", "red");
$(".date_border").focus();
                             return false;
                    3
                   $.ajax({
    url:"./detailWrite",
                               type:"post",
data:{
                                     r. pot , ta:{
    "r.no":r.no,
    "r_detail_title":r_detail_title,
    "r_detail_state":r_detail_state,
    "r_detail_grade":r_detail_grade,
    "s_no":s_no,
    "textbook_no":textbook_no,
    "r_detail_content":r_detail_content,
    "r_detail_priority":r_detail_priority,
    "r_detail_startdate":r_detail_startdate,
    "r_detail_enddate":r_detail_enddate
if(data[0].r_detail_state == '시작 전'){ $("#todopend").prepend(chtml); }
if(data[0].r_detail_state == '진행 중'){ $("#doingpend").prepend(chtml); }
if(data[0].r_detail_state == '완료'){ $("#doingpend").prepend(chtml); }
if(data[0].r_detail_state == '상태 없음'){ $("#trashpend").prepend(chtml); }
$('#myModal').hide();
location.reload(true);
$("#r datail_tile").vel("").
                                             location.reload(true);
$("#r_detail_title").val("");
$("#r_detail_state").val("상태 없음");
$("#r_detail_grade").val("선택 안함");
$("#s_no").val("e");
$("#r_detail_content").val("");
$("#r_detail_priority").val("선택 안함");
$("#r_detail_startdate").val("");
$("#r_detail_startdate").val("");
                                             $("#r_detail_enddate").val("");
                                    f,
error:function(){
alert("날짜를 입력하세요!");
     });//ajax
});// detail_save
});// function
```

```
// 로드맵 제목 변경
@ResponseBody
@RequestMapping("/modiTitle")
public RoadmapVo modiTitle(RoadmapVo roadmapVo) {
     int result = roadmapDetailService.modiTitle(roadmapVo);
     // 수정된 로드맵 리스트
     RoadmapVo modiRoadmap = roadmapDetailService.modiRoadmapList(roadmapVo);
     return modiRoadmap;
// 세부 로드맵 리스트
@RequestMapping("/roadmap detail")
public MaprString, Object roadmapDetail(RoadmapVo roadmapDot, RoadmapDetailVo, RoadmapDetailOutVo roadmapDetailOutVo){
    Map<String, Object> map = new HashMap<String, Object>();
    // 사이드바 로드맵 리스트
    List<RoadmapVo> list = roadmapDetailService.roadmapList(roadmapVo);
      세부 로드맨 리스트
    List<RoadmapDetailVo> rdList = roadmapDetailService.roadmapDetail(roadmapDetailVo);
    List<SubjectVo> sList = roadmapDetailService.selectSubject();
    List<TextbookVo> tList = roadmapDetailService.selectTextbook(roadmapVo);
       시작전 카운트
    int sCount = roadmapDetailService.startCount(roadmapDetailVo);
      진행중 카운트
    int iCount = roadmapDetailService.ingCount(roadmapDetailVo);
    int eCount = roadmapDetailService.endCount(roadmapDetailVo);
    int nCount = roadmapDetailService.noneCount(roadmapDetailVo);
   map.put("list", list);
map.put("rdList", rdList);
map.put("sList", sList);
map.put("tList", tList);
map.put("sCount", sCount);
map.put("iCount", iCount);
map.put("eCount", eCount);
map.put("nCount", ncount);
    return map;
// 교재 저장
@ResponseBody
@RequestMapping("/subjectWrite")
public List<TextbookVo> subjectWrite(TextbookVo textbookVo, RoadmapVo roadmapVo) {
    int result = roadmapDetailService.subjectWrite(textbookVo);
     // 교재 리스트
    List<TextbookVo> tList = roadmapDetailService.selectTextbook(roadmapVo);
    return tList:
}
// 세부 로드맵 저장
@ResponseBody
@RequestMapping("/detailWrite")
public List<RoadmapDetailVo> detailRoadmapWrite(RoadmapDetailVo roadmapDetailVo){
    int result = roadmapDetailService.detailRoadmapWrite(roadmapDetailVo);
     // 세부 축약 로드맨 리스트
    List<RoadmapDetailVo> rdList = roadmapDetailService.roadmapDetail(roadmapDetailVo);
//System.out.println("rdList : " + rdList);
     return rdList;
```

```
// 세부 로드맵 삭제
@ResponseBody
@RequestMapping("/detailroadmapDel")
public int detailroadmapDel(RoadmapDetailVo roadmapDetailVo) {
     int result = roadmapDetailService.detailroadmapDel(roadmapDetailVo);
    return result;
3
 // 수정 모달창에 값 가져오기
@ResponseBody
@RequestMapping("/inModi")
public RoadmapDetailVo inModi(RoadmapDetailVo roadmapDetailVo) {
     // 세부 모달 리스트
    RoadmapDetailVo inList = roadmapDetailService.inModi(roadmapDetailVo);
     //System.out.println("inList : " + inList);
    return inList;
}
 // 세부 로드맵 수정
@ResponseBody
@RequestMapping("/detailModi")
public RoadmapDetailVo detailModi(RoadmapDetailVo roadmapDetailVo) {
    int result = roadmapDetailService.detailModi(roadmapDetailVo);
     // 세부 모달 리스트
    RoadmapDetailVo inList = roadmapDetailService.inModi(roadmapDetailVo);
    return inList;
3
@ResponseBody
@RequestMapping("/count_state")
public Map<String, Object> count_state(RoadmapDetailVo roadmapDetailVo) {
    Map<String, Object> map = new HashMap<String, Object>();
    // 시작전 카운트
    int sCount = roadmapDetailService.startCount(roadmapDetailVo);
    // 진행중 카운트
    int iCount = roadmapDetailService.ingCount(roadmapDetailVo);
    // 완료 카운트
    int eCount = roadmapDetailService.endCount(roadmapDetailVo);
    // 상태없음 카운트
    int nCount = roadmapDetailService.noneCount(roadmapDetailVo);
   map.put("sCount", sCount);
map.put("iCount", iCount);
map.put("eCount", eCount);
map.put("nCount", nCount);
    return map;
// 로드맵 삭제
@ResponseBody
@RequestMapping("/roadmapDel")
public RoadmapVo roadmapDel(RoadmapVo roadmapVo, RoadmapDetailVo roadmapDetailVo) {
    // 삭제시 이전 로드맵 가져오기
    RoadmapVo preRoadmap = roadmapDetailService.preRoadmapList(roadmapVo);
    int result = roadmapDetailService.roadmapDel(roadmapDetailVo);
    return preRoadmap;
```

```
//로드맵 드래그 앤 드롭
@ResponseBody
@RequestMapping("/detailroadmapDrag")
public int detailroadmapDrag(RoadmapDetailVo roadmapDetailVo) {
    //로드맵 세부 상태 변경
    int result = roadmapDetailService.detailroadmapDrag(roadmapDetailVo);
    return result;
}
```

[Service]

```
public interface RoadmapDetailService {
    // 로드맵 제목 변경
   int modiTitle(RoadmapVo roadmapVo);
   RoadmapVo modiRoadmapList(RoadmapVo roadmapVo);
    // 사이드바 로드맵 리스트
   List<RoadmapVo> roadmapList(RoadmapVo roadmapVo);
    // 세부 로드맨 리스트
   List<RoadmapDetailVo> roadmapDetail(RoadmapDetailVo roadmapDetailVo);
    // 교재 저장
   int subjectWrite(TextbookVo textbookVo);
   List<TextbookVo> selectTextbook(RoadmapVo roadmapVo);
    // 과모 리스트
   List<SubjectVo> selectSubject();
   int detailRoadmapWrite(RoadmapDetailVo roadmapDetailVo);
    // 세부 로드맵 삭제
   int detailroadmapDel(RoadmapDetailVo roadmapDetailVo);
   int startCount(RoadmapDetailVo roadmapDetailVo);
   int ingCount(RoadmapDetailVo roadmapDetailVo);
   int endCount(RoadmapDetailVo roadmapDetailVo);
    // 상태없음 카운트
   int noneCount(RoadmapDetailVo roadmapDetailVo);
   // 수정 모달창에 값 가져오기
   RoadmapDetailVo inModi(RoadmapDetailVo roadmapDetailVo);
   // 세부 로드맵 수정
int detailModi(RoadmapDetailVo roadmapDetailVo);
   int roadmapDel(RoadmapDetailVo roadmapDetailVo);
   // 삭제시 이전 로드맵 가져오기
   RoadmapVo preRoadmapList(RoadmapVo roadmapVo);
   // 로드맵 드래그 앤 드롭
   int detailroadmapDrag(RoadmapDetailVo roadmapDetailVo);
```

[ServiceImpl]

```
// 로드맵 제목 변경
public int modiTitle(RoadmapVo roadmapVo) {
   roadmapVo.setU_no((Integer)session.getAttribute("session_u_no"));
     int result = roadmapDetailMapper.updateTitle(roadmapVo);
return result;
 // 수정된 로드맵 리스트
public RoadmapVo modiRoadmapList(RoadmapVo roadmapVo) {
    roadmapVo.setU_no((Integer)session.getAttribute("session_u_no"));
    RoadmapVo modiRoadmap = roadmapDetailMapper.modiRoadmapList(roadmapVo);
    return modiRoadmap;
 // 사이드바 로드맵 리스트
public List<RoadmapVo> roadmapList(RoadmapVo roadmapVo) {
    roadmapVo.setU_no((Integer)session.getAttribute("session_u_no"));
    List<RoadmapVo> list = roadmapDetailMapper.roadmapList(roadmapVo);
return list;
 // 세부 로드맵 리스트
public List<RoadmapDetailVo> roadmapDetail(RoadmapDetailVo roadmapDetailVo) {
    roadmapDetailVo.setu_no((Integer)session.getAttribute("session_u_no"));
     List<RoadmapDetailVo> rdList = roadmapDetailMapper.selectRoadmapDetail(roadmapDetailVo); return rdList;
// 교재 저장
int result = roadmapDetailMapper.insertSubject(textbookVo);
return result;
 .
// 교재 리스트
public List<TextbookVo> selectTextbook(RoadmapVo roadmapVo) {
    roadmapVo.setU_no((Integer)session.getAttribute("session_u_no"));
     List<TextbookVo> tList = roadmapDetailMapper.selectTextbook(roadmapVo);
return tList;
 // 과목 리스트
public List<SubjectVo> selectSubject() {
     List<SubjectVo> sList = roadmapDetailMapper.selectSubject();
 // 세부 로드맵 저장
public int detailRoadmapWrite(RoadmapDetailVo roadmapDetailVo) {
       roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
      int result = roadmapDetailMapper.insertDetailRoadmap(roadmapDetailVo);
 // 세부 로드맵 삭제
public int detailroadmapDel(RoadmapDetailVo roadmapDetailVo) {
   roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
      int result = roadmapDetailMapper.detailroadmapDelete(roadmapDetailVo);
 // 상태별 카운트
public int startCount(RoadmapDetailVo roadmapDetailVo) {
    roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
      int sCount = roadmapDetailMapper.startCount(roadmapDetailVo);
return sCount;
```

[ServiceImpl]

```
// 진행중 카운트
public int ingCount(RoadmapDetailVo roadmapDetailVo) {
    roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
    int iCount = roadmapDetailMapper.ingCount(roadmapDetailVo);
3
// 완료 카운트
⊕Override
public int endCount(RoadmapDetailVo roadmapDetailVo) {
    roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
    int eCount = roadmapDetailMapper.endCount(roadmapDetailVo);
   return eCount;
// 상태없음 카운트
public int noneCount(RoadmapDetailVo roadmapDetailVo) {
    roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
    int nCount = roadmapDetailMapper.noneCount(roadmapDetailVo);
    return nCount;
}
// 수정 모달창에 값 가져오기
public RoadmapDetailVo inModi(RoadmapDetailVo roadmapDetailVo) {
    roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
    // 세부 충약 로드맨 리스트
    RoadmapDetailVo inList = roadmapDetailMapper.inModi(roadmapDetailVo);
   return inList:
 // 세부 로드맵 수정
 public int detailModi(RoadmapDetailVo roadmapDetailVo) {
     roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
     int result = roadmapDetailMapper.detailModi(roadmapDetailVo);
    return result;
 // 로드맵 삭제
 @Override
public int roadmapDel(RoadmapDetailVo roadmapDetailVo) {
     roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
     int result = roadmapDetailMapper.roadmapDel(roadmapDetailVo);
     return result;
 // 삭제시 이전 로드맵 가져오기
 @Override
public RoadmapVo preRoadmapList(RoadmapVo roadmapVo) {
     roadmapVo.setU_no((Integer)session.getAttribute("session_u_no"));
     RoadmapVo preRoadmap = roadmapDetailMapper.preRoadmapList(roadmapVo);
     return preRoadmap;
}
 //로드맵 드래그 앤 드롭
public int detailroadmapDrag(RoadmapDetailVo roadmapDetailVo) {
    roadmapDetailVo.setU_no((Integer)session.getAttribute("session_u_no"));
     //로드맵 세부 상태 변경
     int result = roadmapDetailMapper.updateRoadmapDetailState(roadmapDetailVo);
     return result;
```

[Mapper]

```
public interface RoadmapDetailMapper {
    // 로드맵 제목 변경
   int updateTitle(RoadmapVo roadmapVo);
    // 수정된 로드맵 리스트
    RoadmapVo modiRoadmapList(RoadmapVo roadmapVo);
    // 사이드 바 로드맵 리스트
    List<RoadmapVo> roadmapList(RoadmapVo roadmapVo);
    // 세부 로드맵 리스트
    List<RoadmapDetailVo> selectRoadmapDetail(RoadmapDetailVo roadmapDetailVo);
    // 교재 저장
    int insertSubject(TextbookVo textbookVo);
    // 교재 리스트
   List<TextbookVo> selectTextbook(RoadmapVo roadmapVo);
    // 과목 리스트
   List<SubjectVo> selectSubject();
    // 세부 로드맵 저장
    int insertDetailRoadmap(RoadmapDetailVo roadmapDetailVo);
    // 세부 로드맵 삭제
    int detailroadmapDelete(RoadmapDetailVo roadmapDetailVo);
    // 시작전 카운트
    int startCount(RoadmapDetailVo roadmapDetailVo);
    // 진행중 카운트
    int ingCount(RoadmapDetailVo roadmapDetailVo);
    int endCount(RoadmapDetailVo roadmapDetailVo);
    // 상태없음 카운트
    int noneCount(RoadmapDetailVo roadmapDetailVo);
   // 수정 모달창에 값 가져오기
   RoadmapDetailVo inModi(RoadmapDetailVo roadmapDetailVo);
    // 세부 로드맵 수정
   int detailModi(RoadmapDetailVo roadmapDetailVo);
   int roadmapDel(RoadmapDetailVo roadmapDetailVo);
   // 삭제시 이전 로드맵 가져오기
   RoadmapVo preRoadmapList(RoadmapVo roadmapVo);
    // 로드맵 세부 상태 변경
   int updateRoadmapDetailState(RoadmapDetailVo roadmapDetailVo);
}
```

[Mapper.xml]

```
<!-- 로드맵 제목 변경 -->
       update roadmap set r name=#{r name} where r no=#{r no}
       - 수정된 로드맵 리스트 -->
<:-- アガゼ エニョ ドロニ -->
<select id="modiRoadmapList" resultType="com.site.team1.vo.RoadmapVo">
select * from roadmap where r_no=${r_no}
<!-- 사이드바 로드맵 리스트 -->
<select id="roadmapList" resultType="com.site.team1.vo.RoadmapVo</p>
       select * from roadmap where u_no=#{u_no} and cate_sub_no not in('2', '4', '6', '22') and r_expose not in('N') order by r_no desc
  <!-- 세부 로드맵 리스트 :
 <select id="selectRoadmapDetail" resultType="com.site.team1.vo.RoadmapDetailVo">
       select ion="selectropadmappetall" resultiype="com.site.team1.vo.RoadmapDetallVo">
select d.r_detail_no, d.r_detail_title, d.r_detail_date, d.r_detail_content, d.r_detail_priority, d.r_detail_startdate, d.r_detail_enddate,
d.r_detail_state, d.r_detail_grade, d.s_no, s.s_name, t.textbook_no, t.textbook_content
from roadmap_detail d, subject s, textbook t
where (d.s_no(+)=s.s_no and d.textbook_no=t.textbook_no(+)) and d.r_no=#{r_no}
        order by r_detail_no desc
<!-- 수정 모달 리스트 --:
<select id="inModi" res
                                    resultType="com.site.team1.vo.Roa
                                                                                                  napDetaiLVo"
       select d.r_detail_no, d.r_detail_title, d.r_detail_date, d.r_detail_content, d.r_detail_priority, d.r_detail_startdate, d.r_detail_enddate, d.r_detail_state, d.r_detail_grade, d.s_no, s.s_name, t.textbook_no, t.textbook_content from roadmap_detail d, subject s, textbook t where (d.s_no(+)=s.s_no and d.textbook_no=t.textbook_no(+)) and r_detail_no=#{r_detail_no}
</select>
  <!-- 교재 저장 -->
 <insert id="insertSubject">
        insert into textbook values (textbook_seq.nextval, #{textbook_content}, #{u_no})
</inserts
<select id="selectTextbook" resultType="com.site.team1.vo.TextbookVo">
select * from textbook where u_no=#{u_no} and textbook_no not in('0') order by textbook_no desc
<!-- 과목 리스트 -->
<select id="selectSubject" resultType="com.site.team1.vo.SubjectVo">
select * from subject order by s_no asc
</select>
<!-- 세부 로드맵 저장 -->
<insert id="insertDetailRoadmap">
    insert into roadmap_detail values (roadmap_detail_seq.nextval, #{r_detail_title}, sysdate, #{r_detail_content}, #{r_detail_priority}, #{r_detail_startdate}, #{r_detail_enddate},
#{r_no}, #{s_no}, #{r_detail_startdate}, #{r_detail_grade}, #{textbook_no})
</insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></insert></in></insert></in></in></in></in></in></in></in>
 <!-- 세부 로드맵 수정 --><!-- , r_detail_date=#{r_detail_date}, -->
      ate lo= deconload; set r_detail_title=#{r_detail_title}, r_detail_content=#{r_detail_content}, r_detail_priority=#{r_detail_priority},
r_detail_startdate=#{r_detail_startdate}, r_detail_enddate=#{r_detail_enddate}, s_no=#{s_no}, r_detail_state=#{r_detail_state}, r_detail_grade=#{r_detail_grade}, textbook_no=#{textbook_no}
where r_detail_no=#f_detail_no*
</update>
<!-- 세부 로드업 삭제 -->
<delete id="detailroadmappeLete">
delete from roadmap_detail where r_detail_no=#(r_detail_no)
</delete>
<!-- 시작전 카운트 -->
<select id="startCount" resultType="int">
       select count(*) from roadmap_detail where r_no=#{r_no} and r_detail_state='시작 전'
</select>
<!-- 진행중 카운트 -->
<select id="ingCount" resultType="int"
        select count(*) from roadmap_detail where r_no=#{r_no} and r_detail_state='진행 중'
</select>
 <!-- 완료 카운트 -->
 <select id="endCount" resultType="int";</pre>
       select count(*) from roadmap_detail where r_no=#{r_no} and r_detail_state='완료'
<!-- noneCount 카운트 -->
<select id="noneCount" resultType="int">
       select count(*) from roadmap_detail where r_no=#{r_no} and r_detail_state='상태 없음'
<!-- 로드맵 삭제 -->
<update id="roadmapDel"
       update roadmap set r_expose='N' where r_no=#{r_no}
```

[Mapper.xml]

```
<!-- 삭제시 이전 로드앱 가져오기 -->
<select id="preRoadmapList" resultType="com.site.team1.vo.RoadmapVo">
    select id="preRoadmapList" resultType="com.site.team1.vo.RoadmapVo">
        select * from (select promum as prum, r.* from (select * from pagdmap, where cate_sub_no not in('2', '4', '6', '22') and r_expose not in('N') and u_no=#{u_no} order by r_no dess() r)
    where cate_sub_no not in('2', '4', '6', '22') and r_expose not in('N') and u_no=#{u_no} order by r_no dess() r)
    where r_no=#{r_no}#{r_no}}+1
```

[DAO]

```
@NoArgsConstructor
                                           @NoArgsConstructor
@AllArgsConstructor
                                            @AllArgsConstructor
                                                                                                              @NoArgsConstructor
                                           @Data
                                                                                                              @AllArgsConstructor
public class RoadmapVo {
                                           public class TextbookVo {
                                                                                                              @Data
     private int r_no;
                                                                                                              public class SubjectVo {
     private String r_name;
private String r_expose;
                                                   private int textbook_no;
                                                   private String textbook_content;
                                                                                                                      private int s_no;
     private int u_no;
private int cate_sub_no;
}
                                                                                                                      private String s_name;
                                                   private int u_no;
public class RoadmapDetailVo {
   private int u_no;
   private int r_detail_no;
private String r_detail_title;
private Timestemp r_detail_date;
private String r_detail_content;
private String r_detail_priority;
private String r_detail_state;
private String r_detail_state;
private String r_detail_grade;
private Timestamp r_detail_enddate;
   private int textbook_no;
private String textbook_content;
```