

2025년 상반기 K-디지털 트레이닝

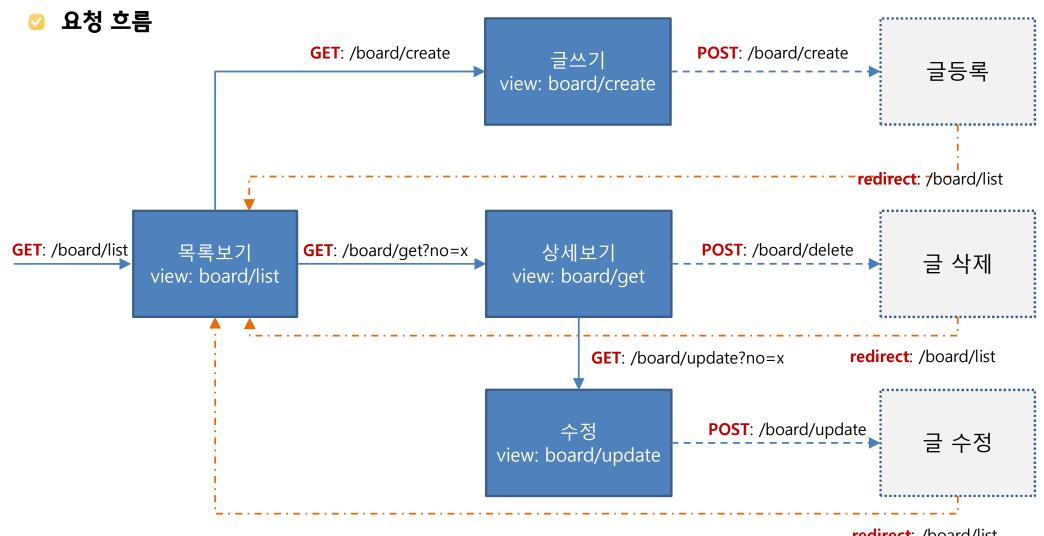
화면 처리

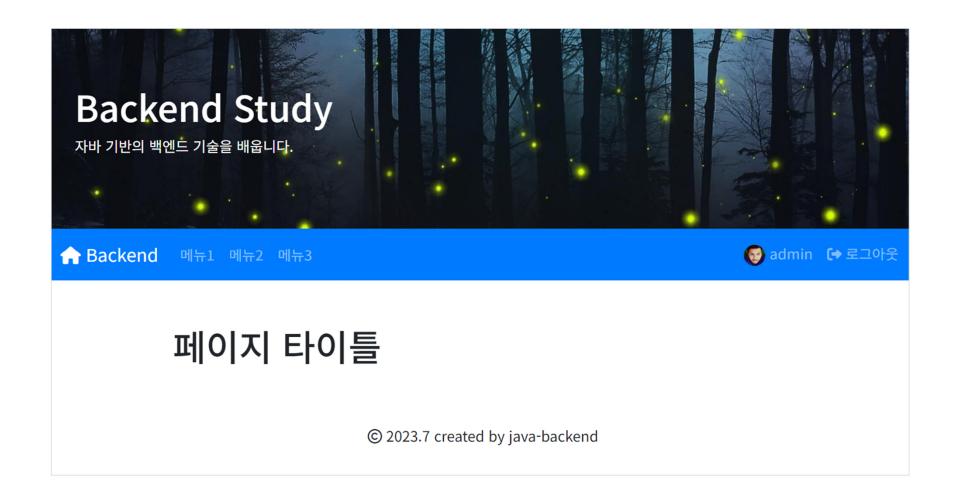
[KB] IT's Your Life



BoardController의 분석

Task	URL	Method	Parameter	Form	URL 이동
전체 목록	/board/list	GET			
등록 처리	/board/create	POST	모든 항목	입력화면 필요	이동
조회	/board/get	GET	no=123		
수정 처리	/board/update	POST	no	입력화면 필요	이동
삭제 처리	/board/delete	POST	모든 항목	입력화면 필요	이동



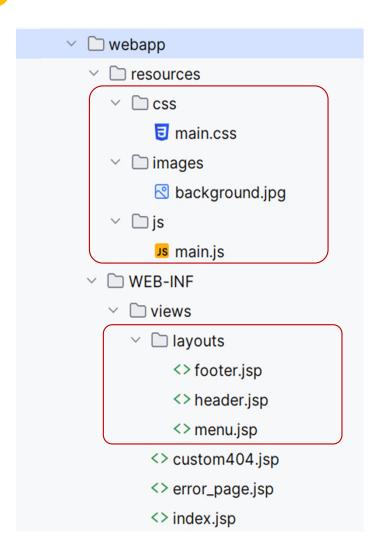


resources/

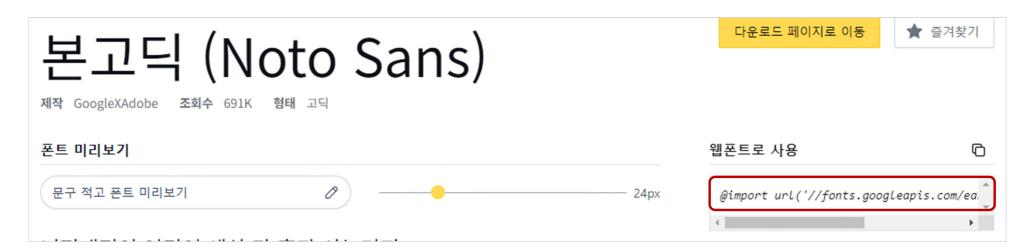
- 정적 파일 구성
 - css/main.css
 - images/background.jsp
 - js/main.js

views/layouts

- 각 페이지의 공통 부분을 독립파일로 정의
- 각 페이지에서 include로 사용
 - 코드 중복 해결
- 구성 파일
 - header.jsp
 - menu.jsp
 - footer.jsp



- ☑ webfont 설정
 - O https://noonnu.cc/ 에서 noto 검색

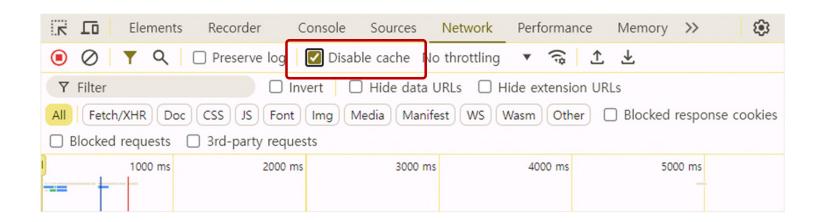


webapp/resources/css/main.css

```
@import url('https://fonts.googleapis.com/css2?family=Noto+Sans+KR:wght@100;200;300;400;500;600;700;800;900&display=swap');
* {
           font-family: 'Noto Sans KR'
.avatar-sm {
            width: 24px;
            height: 24px;
            border-radius: 50%;
.jumbotron {
  background-image: url('/resources/images/background.jpg');
  background-repeat: no-repeat;
  background-position: center;
  background-size: cover;
  color: white;
  padding: 2rem;
  margin-top:1.5rem;
```

☑ 정적 파일 캐싱 차단

- 브라우저에서 정적 파일을 캐싱함
 - 서버에서 css파일을 수정해도 반영 안되는 현상 발생 → 캐시 기능을 꺼야 함



webapp/resources/js/main.js

// 자바 스크립트 공통 부분

✓ views/layouts/menu.jsp

```
<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<nav class="navbar navbar-expand-md bg-primary navbar-dark sticky-top">
  <div class="container-fluid">
    <a class="navbar-brand" href="#"><i class="fa-solid fa-house"></i> Backend</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#collapsibleNavbar">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="collapsibleNavbar">
      <!-- 좌측 메뉴 구성 -->
      cli class="nav-item">
         <a class="nav-link" href="#">메뉴1</a>
        class="nav-item">
         <a class="nav-link" href="#">메뉴2</a>
        cli class="nav-item">
         <a class="nav-link" href="#">메뉴3</a>
```

views/layouts/menu.jsp

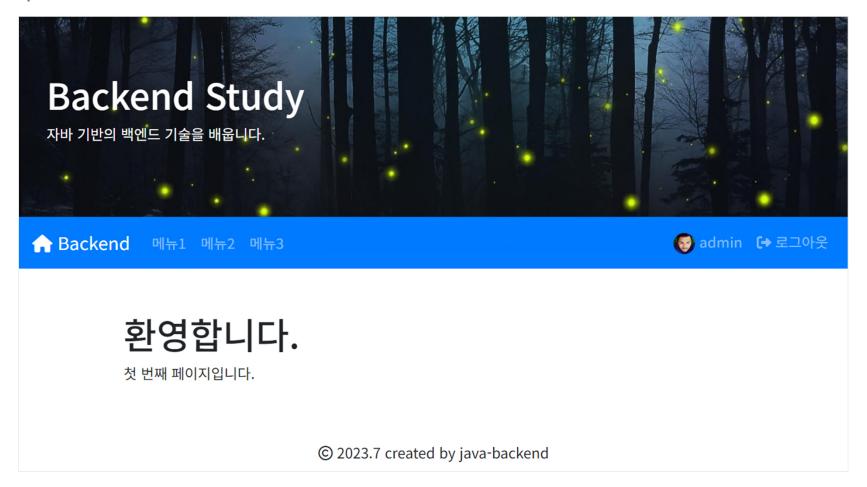
```
<!-- 우측 메뉴 -->
     class="nav-item">
        <a class="nav-link" href="#">
          <img src="https://randomuser.me/api/portraits/men/12.jpg"
            class="avatar-sm"/>
          admin
        </a>
      class="nav-item">
        <a class="nav-link" href="#">
          <i class="fa-solid fa-right-from-bracket"></i> 로그아웃
        </a>
      </div>
 </div>
</nav>
```

views/layouts/header.jsp

views/layouts/header.jsp

views/layouts/footer.jsp

- ☑ 첫 번째 페이지(홈페이지) 만들기
 - o http://localhost:8080/



views/index.jsp

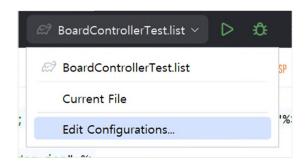
```
<!DOCTYPE html>
<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

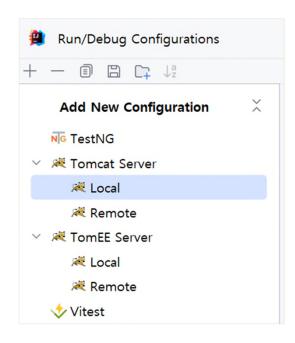
<%@ include file="./layouts/header.jsp" %>

<%-- 개별 페이지 --%>
<h1>환영합니다.</h1>
!! 상대 경로 주의

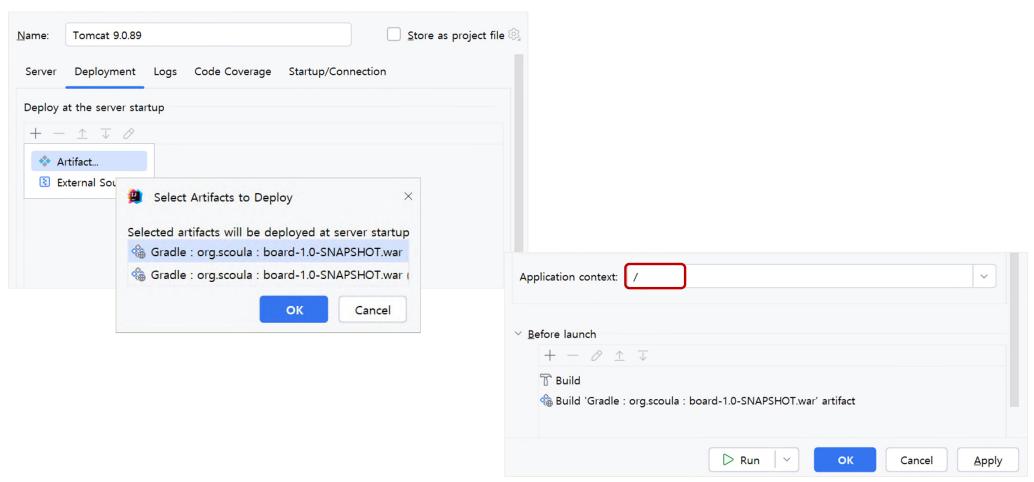
<div>
첫 번째 페이지입니다.
</div>
<mathred="./layouts/footer.jsp" %>
</mathred="./layouts/footer.jsp" %></mathre>
</mathre>
</mathre>
</mathre>
*@ include file="./layouts/footer.jsp" %>
```

ບ 실행 설정

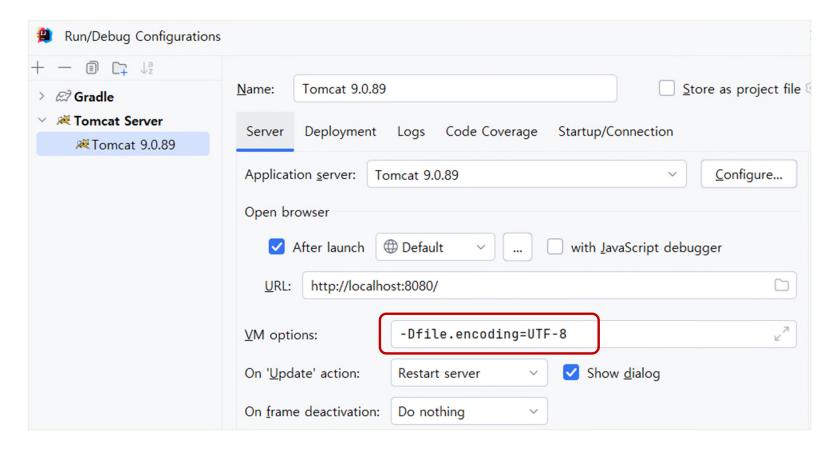




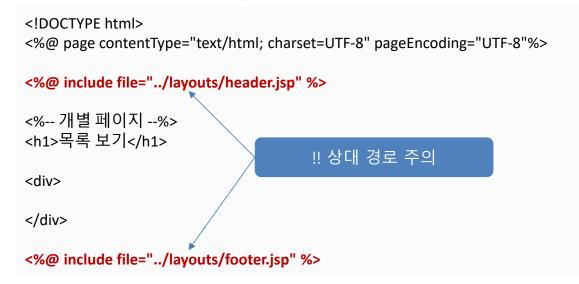
☑ 실행 설정

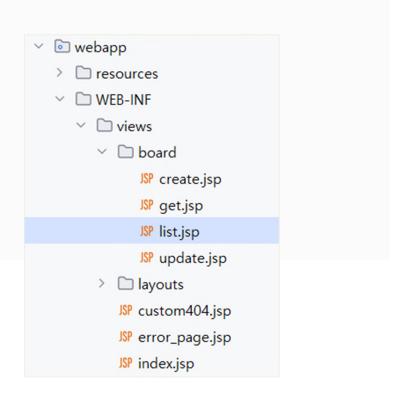


☑ Tomcat 한글 로그 처리



views/board/list.jsp





controller/HomeController.java

○ 개발 편의를 위해 홈페이지를 임시로 게시판 목록 페이지로 리다이렉트

```
@Controller
@SIf4j
public class HomeController {

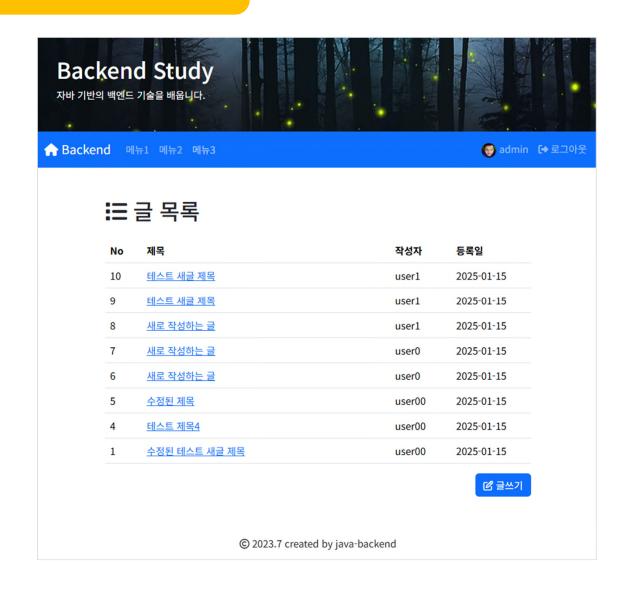
@GetMapping("/")
public String home() {

// log.info("=======> HomController /");
// return "index"; // View의 이름

return "redirect:/board/list";
}
```

☑ 목록보기

/board/list



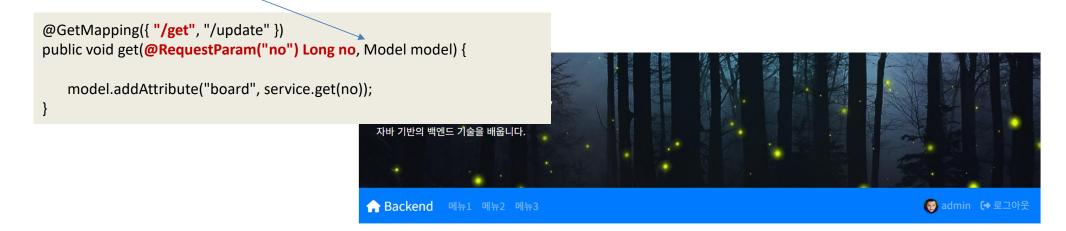
✓ views/board/list.jsp

```
views/board/list.jsp
                                                                public class BoardController {
                                     글 목록이 담긴 속성
                                                                  @GetMapping("/list")
                                                                  public void list(Model model) {
          <c:forEach var="board" items="${list}">
                                                                   model.addAttribute("list", service.getList());
                   ${b 상세보기 링크 구성
                             <a href="get?no=${board.no}">${board.title}</a>
                             ${board.writer}
                             >
                                      <fmt:formatDate pattern="yyyy-MM-dd" value="${board.regDate}"/>
                             </c:forEach>
```

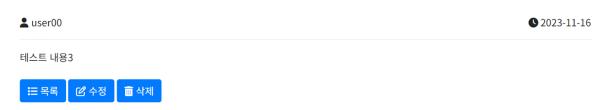
views/board/list.jsp

☑ 상세보기

o /board/get?no=xxx



目 테스트 제목3



views/board/get.jsp

```
<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt"%>
<!DOCTYPE html>
<%@include file="../layouts/header.jsp"%>
<h1 class="page-header my-4"><i class="far fa-file-alt"></i> ${board.title}</h1>
<div class="d-flex justify-content-between">
            <div><i class="fas fa-user"></i> ${board.writer}</div>
            <div>
                        <i class="fas fa-clock"></i>
                        <fmt:formatDate pattern="yyyy-MM-dd" value="${board.regDate}"/>
            </div>
</div>
<hr>
<div>
            ${board.content}
</div>
```

views/board/get.jsp

☑ 글쓰기

/board/create



② 새 글쓰기

제목		
작성자		
내용		
		1
✓ 확인 5 취	≒목록	

> resources

화면 처리

views/board/create.jsp

```
∨ □ WEB-INF

<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

∨ □ views

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

∨ □ board

<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt"%>
                                                                                                                                    JSP create.jsp
<!DOCTYPE html>
                                                                                                                                    JSP get.jsp
<%@include file="../layouts/header.jsp"%>
                                                                                                                                    JSP list.jsp
                                                                                                                                    JSP update.jsp
<h1 class="page-header my-4"><i class="far fa-edit"></i> 새 글쓰기</h1>
                                                                                                                              > layouts
                                                                          @Data
<div >
                                                                                                                                 JSP custom404.jsp
                                                                          public class BoardDTO {
  <form method="post">
                                                                                                                                 JSP error_page.jsp
    <vib>
                                                                                                                                 JSP index.jsp
                                                                            private Long no;
      <label>제목</label>
                                                                            private String title;
      <input name="title" class="form-control">
                                                                            private String writer;
    </div>
                                                                            private String content;
                                                                            private Date regDate;
    <div>
                                                                            private Date updateDate;
      <label>작성자</label>
      <input name="writer" class="form-control">
    </div>
```

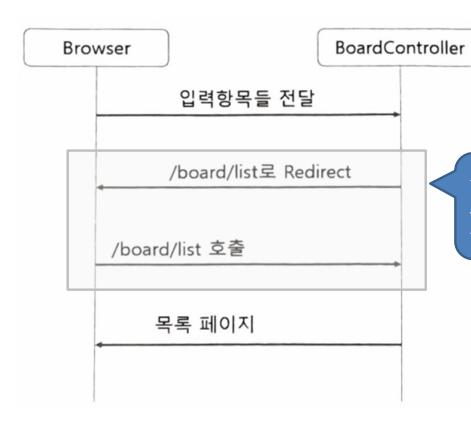
views/board/create.jsp

```
@Data
public class BoardDTO {

private Long no;
private String title;
private String writer;
private String content;
private Date regDate;
private Date updateDate;
}
```

Redirect

☑ 재전송(redirect) 처리



```
@PostMapping("/create")
public String create(BoardDTO board,

Re

directAttributes ra) {

    service.create(board);
    ra.addFlashAttribute("result", board.getNo());

    return "redirect:/board/list";
}

나라우저 내무에서 연속 작업으로 서리

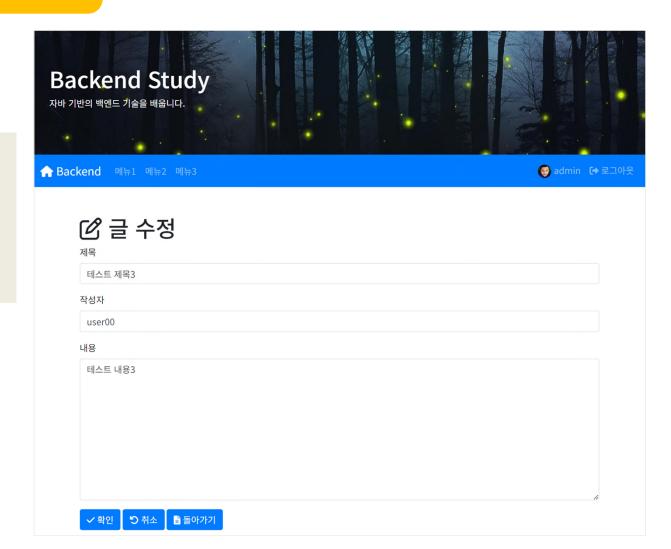
    사용자는 인지 못함
```

☑ 수정하기

o /board/update?no=xxx

```
@GetMapping({ "/get", "/update" })
public void get(@RequestParam("no") Long no,

Model model) {
    model.addAttribute("board", service.get(no));
}
```



views/board/update.jsp

```
WEB-INF
                                                                                                                        views
<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
                                                                                                                           board
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
                                                                                                                                 JSP create.jsp
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt"%>
                                                                                                                                 JSP get.jsp
<!DOCTYPE html>
<%@include file="../layouts/header.jsp"%>
                                                                                                                                 JSP list.jsp
                                                                                                                                 JSP update.jsp
<h1 class="page-header my-4"><i class="far fa-edit"></i> 글 수정</h1>
                                                                                                                           > layouts
<div>
                                                                                                                              JSP custom404.jsp
           <form role="form" method="post" >
                                                                                                                              JSP error_page.jsp
                        <input type="hidden" name="no" value="${board.no}">
                                                                                                                              JSP index.jsp
                        <div >
                                    <label>제목</label>
                                                                                                  @Data
                                   <input name="title" class="form-control" value="${board.title} public class BoardDTO {</pre>
                        </div>
                                                                                                    private Long no;
                        <div >
                                                                                                    private String title:
                                    <label>작성자</label>
                                                                                                    private String writer;
                                    <input name="writer" class="form-control" value="${board.wri</pre>
                                                                                                    private String content;
                        </div>
                                                                                                    private Date regDate;
                                                                                                    private Date updateDate;
                        <div >
                                    <label>내용</label>
                                   <textarea class="form-control" name="content" rows="10">${board.content}</textarea>
                        </div>
```

webapp

resources

34

views/board/update.jsp

☑ 삭제

ㅇ 삭제의 문제점

```
<a href="delete?no=${board.no}" class="btn btn-primary">
<i class="fas fa-trash-alt"></i> 삭제</a>
```

a 태그를 통한 요청은 GET 요청 → 컨트롤러에서 @PostMapping으로 설정 했으므로 POST 요청을 보내야함 숨겨진 form을 이용해서 POST 요청을 해야함

○ 글 삭제 전 정말 삭제할지 물어보고, 예 응답 시 실제 삭제 POST 요청 전송 → JS 처리 필요

views/board/get.jsp

```
<div class="mt-4">
  <a href="list" class="btn btn-primary"><i class="fas fa-list"></i> 목록</a>
  <a href="update?no=${board.no}" class="btn btn-primary"><i class="far fa-edit"></i> 수정</a>
  <a href="#" class="btn btn-primary delete"><i class="fas fa-trash-alt"></i> 삭제</a>
</div>
                     POST :: /board/delete
<form action="delete" method="post" id="deleteForm">
  <input type="hidden" name="no" value="${board.no}"/>
</form>
<script src="/resources/js/board.js"></script>
                                                                                 @PostMapping("/delete")
                                                                                 public String delete(@RequestParam("no") Long no,
<%@include file="../layouts/footer.jsp"%>
                                                                                                                                              Re
                                                                                 directAttributes ra) {
                                                                                   if (service.delete(no)) {
                                                                                     ra.addFlashAttribute("result", "success");
                                                                                   return "redirect:/board/list";
                                                                                                                                                  37
```

resources/js/board.js

```
// 삭제 버튼의 click 이벤트 핸들러
document.querySelector('.delete').onclick = function() {
  if(!confirm('정말 삭제할까요?')) return;
  document.getElementById('deleteForm').submit();
}
```

