# 8장 완성 코드

### templates/articles/show.mustache

```
{{>layouts/header}}
<thead>
   >
      Id
      Title
      Content
   (/tr)
   </thead>
   {{#article}}
   \langle \mathsf{tr} \rangle
      {{id}}
      {{title}}
      {{content}}
   {{/article}}
   <a href="/articles/{{article.id}}/edit" class="btn btn-primary">Edit</a>
⟨a href="/articles/{{article.id}}/delete" class="btn btn-danger"⟩Delete⟨/a⟩
<a href="/articles">Go to Article List</a>
{{>layouts/footer}}
```

## controller/ArticleController.java

```
package com.example.firstproject.controller;

import com.example.firstproject.dto.ArticleForm;
import com.example.firstproject.entity.Article;
import com.example.firstproject.repository.ArticleRepository;
import lombok.extern.slf4j.Slf4j;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;

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```

```
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.servlet.mvc.support.RedirectAttributes;
import java.util.List;
@S1f4.i
@Controller
public class ArticleController {
   @Autowired
   private ArticleRepository articleRepository;
   @GetMapping("/articles/new")
   public String newArticleForm() {
       return "articles/new";
   }
   @PostMapping("/articles/create")
   public String createArticle(ArticleForm form) {
       log.info(form.toString());
       // System.out.println(form.toString());
       // 1. DTO를 엔티티로 변환
       Article article = form.toEntity();
       log.info(article.toString());
       // System.out.println(article.toString());
       // 2. 리파지터리로 엔티티를 DB에 저장
       Article saved = articleRepository.save(article);
       log.info(saved.toString());
       // System.out.println(saved.toString());
       return "redirect:/articles/" + saved.getId();
   }
   @GetMapping("/articles/{id}") // 데이터 조회 요청 접수
   public String show(@PathVariable Long id, Model model) { // 매개변수로 id 받아오기
       log.info("id = " + id); // id를 잘 받았는지 확인하는 로그 찍기
       // 1. id를 조회하여 데이터 가져오기
       Article articleEntity = articleRepository.findById(id).orElse(null);
       // 2. 모델에 데이터 등록하기
       model.addAttribute("article", articleEntity);
       // 3. 뷰 페이지 반환하기
       return "articles/show";
   }
   @GetMapping("/articles")
```

```
public String index(Model model) {
       // 1. 모든 데이터 가져오기
       List(Article) articleEntityList = articleRepository.findAll();
       // 2. 모델에 데이터 등록하기
       model.addAttribute("articleList", articleEntityList);
       // 3. 뷰 페이지 설정하기
       return "articles/index";
   }
   @GetMapping("/articles/{id}/edit")
   public String edit(@PathVariable Long id, Model model) {
       // 수정할 데이터 가져오기
       Article articleEntity = articleRepository.findById(id).orElse(null);
       // 모델에 데이터 등록하기
       model.addAttribute("article", articleEntity);
       // 뷰 페이지 설정하기
      return "articles/edit";
   }
   @PostMapping("/articles/update")
   public String update(ArticleForm form) {
       log.info(form.toString());
       // 1. DTO를 엔티티로 변환하기
       Article articleEntity = form.toEntity();
       log.info(articleEntity.toString());
       // 2. 엔티티를 DB로 저장하기
       // 2-1. DB에서 기존 데이터 가져오기
       Article
articleRepository.findById(articleEntity.getId()).orElse(null);
       // 2-2. 기존 데이터 값을 갱신하기
       if (target != null) {
          articleRepository.save(articleEntity); // 엔티티를 DB에 저장(갱
신)
       }
       // 3. 수정 결과 페이지로 리다이렉트 하기
       return "redirect:/articles/" + articleEntity.getId();
   }
   @GetMapping("/articles/{id}/delete")
   public String delete(@PathVariable Long id, RedirectAttributes rttr) {
       log.info("삭제 요청이 들어왔습니다!!");
```

```
// 1. 삭제할 대상 가져오기
Article target = articleRepository.findById(id).orElse(null);
log.info(target.toString());

// 2. 대상 엔티티 삭제하기
if (target != null) {
    articleRepository.delete(target);
    rttr.addFlashAttribute("msg", "삭제됐습니다!");
}

// 3. 결과 페이지로 리다이렉트하기
return "redirect:/articles";
}
```

### templastes/layouts/header.mustache

```
<!doctype html>
<html lang="en">
<head>
   <!-- Required meta tags -->
   <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1">
   <!-- Bootstrap CSS -->
   link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"

                     rel="stylesheet"
                                                         integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
   <title>Hello, world!</title>
</head>
<body>
<!-- navigation -->
<nav class="navbar navbar-expand-lg navbar-light bg-light">
   <div class="container-fluid">
       <a class="navbar-brand" href="#">Navbar</a>
       \( \text{button class="navbar-toggler" type="button" \)
               data-bs-toggle="collapse"
               data-bs-target="#navbarSupportedContent"
               aria-controls="navbarSupportedContent"
               aria-expanded="false" aria-label="Toggle navigation">
           ⟨span class="navbar-toggler-icon"⟩⟨/span⟩
       </button>
       <div class="collapse navbar-collapse" id="navbarSupportedContent">
           <a class="nav-link active"</pre>
```

```
aria-current="page" href="#">Home</a>
              <a class="nav-link" href="#">Link</a>
              class="nav-item dropdown">
                  <a class="nav-link dropdown-toggle"</pre>
                     href="#" id="navbarDropdown" role="button"
                     data-bs-toggle="dropdown" aria-expanded="false">
                      Dropdown
                  </a>
                  aria-labelledby="navbarDropdown">
                      ⟨li⟩⟨a class="dropdown-item" href="#">Action⟨/a⟩⟨/li⟩
                      <a class="dropdown-item" href="#">
                              Another action </a>
                      ⟨li⟩⟨hr class="dropdown-divider"⟩⟨/li⟩
                      <a class="dropdown-item" href="#">
                              Something else here</a>
                  <a class="nav-link disabled" href="#" tabindex="-1"</pre>
                     aria-disabled="true">Disabled</a>
              <form class="d-flex">
              <input class="form-control me-2" type="search"</pre>
                     placeholder="Search" aria-label="Search">
              \delta button class="btn btn-outline-success"
                      type="submit">Search(/button)
           </form>
       </div>
   </div>
</nav>
{{#msg}}
<div class="alert alert-primary alert-dismissible">
   {{msg}}
   \( \text{button type="button" class="btn-close" data-bs-dismiss="alert" \)
           aria-label="Close"></button>
</div>
{{/msg}}
```

#### controller/MemberController.java

```
package com.example.firstproject.controller;
import com.example.firstproject.entity.Member;
import com.example.firstproject.dto.MemberForm;
import com.example.firstproject.repository.MemberRepository;
import lombok.extern.slf4j.Slf4j;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.servlet.mvc.support.RedirectAttributes;
@S1f4j
@Controller
public class MemberController {
    @Autowired
    MemberRepository memberRepository;
    @GetMapping("/members/new")
    public String newMemberForm() {
        return "members/new";
    }
    @GetMapping("/signup")
    public String signUpPage() {
        return "members/new";
    }
    @PostMapping("/join")
    public String join(MemberForm memberForm) {
        log.info(memberForm.toString());
        Member member = memberForm.toEntity();
        log.info(member.toString());
        Member saved = memberRepository.save(member);
        log.info(saved.toString());
        return "redirect:/members/" + saved.getId();
    }
    @GetMapping("/members/{id}")
    public String show(@PathVariable Long id, Model model) {
        Member member = memberRepository.findById(id).orElse(null);
```

```
model.addAttribute("member", member);
       return "members/show";
   }
   @GetMapping("/members")
   public String index(Model model) {
       Iterable \( Member \rangle \) members = memberRepository.findAll();
       model.addAttribute("members", members);
       return "members/index";
   }
   @GetMapping("/members/{id}/edit")
   public String edit(@PathVariable Long id, Model model) {
       Member memberEntity = memberRepository.findById(id).orElse(null);
       model.addAttribute("member", memberEntity);
       return "members/edit";
   }
   @PostMapping("/members/update")
   public String update(MemberForm form) {
       log.info(form.toString());
       Member memberEntity = form.toEntity();
       Member
memberRepository.findById(memberEntity.getId()).orElse(null);
       if (target != null) {
           memberRepository.save(memberEntity);
       return "redirect:/members/" + memberEntity.getId();
   }
   @GetMapping("/members/{id}/delete")
   public String delete(@PathVariable Long id,
                        RedirectAttributes rttr,
                        Model model) {
       log.info("삭제 요청이 들어왔습니다!!");
        // 1. 삭제 대상을 가져옥
       Member target = memberRepository.findById(id).orElse(null);
       log.info(target.toString());
        // 2. 대상 삭제
       if (target != null) {
           memberRepository.delete(target);
           rttr.addFlashAttribute("msg", "삭제됐습니다.");
        // 3. 결과 페이지로 리다이렉트
       return "redirect:/members";
```

#### templates/members/show.mustache

```
{{>layouts/header}}
<thead>
  >
     Id
     Email
     Password
  </thead>
  {{#member}}
     >
        {{id}}
        {{email}}
        {{password}}
     {{/member}}
  <a href="/members/{{member.id}}/edit" class="btn btn-primary">수정하기</a>
<a href="/members/{{member.id}}/delete" class="btn btn-danger">삭제하기</a>
<a href="/members">Go to member list</a>
{{>layouts/footer}}
```