7장 완성 코드

templates/articles/show.mustache

```
{{>layouts/header}}
<thead>
  >
     Id
     Title
     Content
  (/tr)
  </thead>
  {{#article}}
  <tr>
     {{id}}
     {{title}}
     {{content}}
  {{/article}}
  <a href="/articles/{{article.id}}/edit" class="btn btn-primary">Edit</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;
import org.springframework.web.bind.annotation.PathVariable;

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```

```
import org.springframework.web.bind.annotation.PostMapping;
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
                                      target
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();
```

templates/articles/edit.mustache

```
{{>layouts/header}}
{{#article}}
<form class="container" action="/articles/update" method="post">
    <input name="id" type="hidden" value="{{id}}">
    ⟨div class="mb-3"⟩
       <label class="form-label">제목</label>
       <input
                  name="title"
value="{{title}}">
    </div>
    ⟨div class="mb-3"⟩
       <label class="form-label">내용</label>
                               class="form-control"
                                                                  rows="3"
       <textarea</pre>
name="content">{{content}}</textarea>
    </div>
    ⟨button type="submit" class="btn btn-primary"⟩Submit⟨/button⟩
    <a href="/articles/{{id}}">Back</a>
</form>
{{/article}}
{{>layouts/footer}}
```

templates/articles/new.mustache

resources/data.sql

```
INSERT INTO article(id, title, content) VALUES(1, '가가가가', '1111');
INSERT INTO article(id, title, content) VALUES(2, '나나나나', '2222');
INSERT INTO article(id, title, content) VALUES(3, '다다다나', '3333');
```

dto/ArticleForm.java

```
package com.example.firstproject.dto;

import com.example.firstproject.entity.Article;
import lombok.AllArgsConstructor;
import lombok.ToString;

@AllArgsConstructor
@ToString
public class ArticleForm {
    private Long id;
    private String title; // 제목을 받을 필드
    private String content; // 내용을 받을 필드

public Article toEntity() {
    return new Article(id, title, content);
    }
}
```

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;
@Slf4j
@Controller
public class MemberController {
    @Autowired
    MemberRepository memberRepository;
    @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
                                           target
memberRepository.findById(memberEntity.getId()).orElse(null);
        if (target != null) {
            memberRepository.save(memberEntity);
        return "redirect:/members/" + memberEntity.getId();
```

dto/MemberForm.java

```
package com.example.firstproject.dto;
import com.example.firstproject.entity.Member;
import lombok.AllArgsConstructor;
import lombok.ToString;

@AllArgsConstructor
@ToString
public class MemberForm {
    private Long id;
    private String email;
    private String password;

public Member toEntity() {
        return new Member(id, email, password);
    }
}
```

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">Go to member list</a>
{{>layouts/footer}}
```

templates/members/edit.mustache

```
{{>layouts/header}}
{{#member}}
    <form class="container" action="/members/update" method="post">
        <input type="hidden" name="id" value="{{id}}">
        ⟨div class="mb-3"⟩
            <label class="form-label">이메일</label>
            <input type="email" class="form-control" name="email"</pre>
                   value="{{email}}">
        </div>
        ⟨div class="mb-3"⟩
            〈label class="form-label"〉비밀번호〈/label〉
            <input type="password" class="form-control" name="password"</pre>
                   value="{{password}}">
        </div>
        〈button type="submit" class="btn btn-primary"〉수정완료〈/button〉
        ⟨a href="/members"⟩Back⟨/a⟩
    </form>
{{/member}}
```