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src/main/java/com/nhnacademy/springboard/spirngmvcboard/controller/RegistController.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/domain/Board.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/domain/Domain.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/domain/Gender.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/domain/Post.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/domain/User.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/init/Databaselnitializer.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/mapper/BoardMapper.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/mapper/PostMapper.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/mapper/UserMapper.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/repository/BoardRepository.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/repository/PostRepository.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/repository/UserRepository.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/impl/BoardServiceImpl.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/impl/PostServiceImpl.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/impl/UserServiceImpl.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/BoardService.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/FindPasswordRequest.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/LoginRequest.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/LoginService.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/PostService.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/service/UserService.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/utility/DomainUtil.java  
src/main/java/com/nhnacademy/springboard/spirngmvcboard/Base.java  
src/main/resources/mapper/maps/BoardMapper.xml src/main/resources/mapper/maps/PostMapper.xml  
src/main/resources/mapper/maps/UserMapper.xml src/main/resources/db.properties src/main/webapp  
src/main/webapp/resources src/main/webapp/resources/style.css src/main/webapp/WEB-INF  
src/main/webapp/WEB-INF/views src/main/webapp/WEB-INF/views/board src/main/webapp/WEB-INF/views/board/edit.html src/main/webapp/WEB-INF/views/board/post.html src/main/webapp/WEB-INF/views/board/posts.html src/main/webapp/WEB-INF/views/board/write.html src/main/webapp/WEB-INF/views/category src/main/webapp/WEB-INF/views/category/category.html src/main/webapp/WEB-INF/views/login src/main/webapp/WEB-INF/views/login/loginForm.html src/main/webapp/WEB-INF/views/user src/main/webapp/WEB-INF/views/user/find-id.html src/main/webapp/WEB-INF/views/user/find-id-result.html src/main/webapp/WEB-INF/views/user/find-password.html

```
src/main/webapp/WEB-INF/views/user/find-password-result.html src/main/webapp/WEB-INF/views/loginInfo.html src/main/webapp/WEB-INF/views/main.html src/main/webapp/WEB-INF/views/managementUser.html src/main/webapp/WEB-INF/views/userRegist.html src/main/webapp/WEB-INF/views/userUpdate.html
```

```
package com.nhnacademy.springboard.spirngmvcboard.config;
```

```
import javax.sql.DataSource; import lombok.RequiredArgsConstructor; import lombok.extern.slf4j.Slf4j;
import org.apache.commons.dbcp2.BasicDataSource; import
org.springframework.context.annotation.Bean; import
org.springframework.context.annotation.Configuration; import
org.springframework.jdbc.datasource.DataSourceTransactionManager; import
org.springframework.transaction.PlatformTransactionManager;
```

```
@Slf4j @RequiredArgsConstructor @Configuration public class DataBaseConfig { private final
DataBaseProperties databaseProperties; @Bean public DataSource dataSource() { BasicDataSource
basicDataSource = new BasicDataSource();
basicDataSource.setDriverClassName(databaseProperties.getDriverClassName());
log.info("driverClassName={}", databaseProperties.getDriverClassName());
basicDataSource.setUrl(databaseProperties.getUrl()); log.info("url={}", databaseProperties.getUrl());
basicDataSource.setUsername(databaseProperties.getUsername()); log.info("username={}",
databaseProperties.getUsername()); basicDataSource.setPassword(databaseProperties.getPassword());
log.info("password={}", databaseProperties.getPassword());
basicDataSource.setInitialSize(databaseProperties.getInitialSize()); log.info("initialSize={}",
databaseProperties.getInitialSize()); basicDataSource.setMaxTotal(databaseProperties.getMaxTotal());
log.info("maxTotal={}", databaseProperties.getMaxTotal());
basicDataSource.setMinIdle(databaseProperties.getMinIdle()); log.info("minIdle={}",
databaseProperties.getMinIdle()); basicDataSource.setMaxIdle(databaseProperties.getMaxIdle());
basicDataSource.setTestOnBorrow(databaseProperties.isTestOnBorrow());
if(databaseProperties.isTestOnBorrow()) {
basicDataSource.setValidationQuery(basicDataSource.getValidationQuery()); } log.info("testOnBorrow={}",
databaseProperties.isTestOnBorrow()); log.info("basicDataSource {}",basicDataSource); return
basicDataSource; }
```

```
@Bean public PlatformTransactionManager transactionManager(){ return new
DataSourceTransactionManager(dataSource()); }
```

```
} package com.nhnacademy.springboard.spirngmvcboard.config;
```

```
import lombok.Getter; import lombok.NonNull; import org.springframework.beans.factory.annotation.Value;
import org.springframework.context.annotation.PropertySource; import
org.springframework.stereotype.Component;
```

```
@Component @Getter @PropertySource(value="classpath:/db.properties") public class
DataBaseProperties { @NonNull @Value("${db.username}") private String username; @NonNull
@Value("${db.password}") private String password; @NonNull @Value("${db.driverClassName}") private
String driverClassName; @NonNull @Value("${db.url}") private String url; @NonNull
@Value("${db.initialSize}") private Integer initialSize; @NonNull @Value("${db.maxTotal}") private Integer
maxTotal; @NonNull @Value("${db.maxIdle}") private Integer maxIdle; @NonNull @Value("${db.minIdle}")
```

```
private Integer minIdle; @NonNull @Value("${db.maxWaitMillis}") private Integer maxWaitMillis; @NonNull
@Value("${db.validationQuery}") private String validationQuery; @NonNull @Value("${db.testOnBorrow}")
private String testOnBorrow;
```

```
public boolean isTestOnBorrow() { return testOnBorrow.equals("true"); } }
```

```
package com.nhnacademy.springboard.spirngmvcboard.config;
```

```
import javax.sql.DataSource; import lombok.RequiredArgsConstructor; import
org.apache.ibatis.session.SqlSessionFactory; import org.mybatis.spring.SqlSessionFactoryBean; import
org.mybatis.spring.annotation.MapperScan; import org.springframework.context.annotation.Bean; import
org.springframework.context.annotation.Configuration; import
org.springframework.core.io.support.PathMatchingResourcePatternResolver;
```

```
@RequiredArgsConstructor @Configuration @MapperScan(basePackages =
"com.nhnacademy.springboard.spirngmvcboard.mapper.*") public class MybatisConfig { private final
DataSource dataSource; @Bean public SqlSessionFactory sqlSessionFactory() throws Exception {
PathMatchingResourcePatternResolver resolver = new PathMatchingResourcePatternResolver();
SqlSessionFactoryBean sessionFactory = new SqlSessionFactoryBean();
sessionFactory.setDataSource(dataSource);
sessionFactory.setMapperLocations(resolver.getResources("classpath*/mapper/maps/*.xml"));
org.apache.ibatis.session.Configuration configuration = new org.apache.ibatis.session.Configuration();
configuration.setMapUnderscoreToCamelCase(true);
```

```
//camelcase 설정
//https://mybatis.org/mybatis-3/configuration.html
sessionFactory.setConfiguration(configuration);
return sessionFactory.getObject();
```

```
}
```

```
}
```

```
package com.nhnacademy.springboard.spirngmvcboard.config;
```

```
import com.fasterxml.jackson.annotation.JsonInclude; import
com.fasterxml.jackson.databind.ObjectMapper; import com.fasterxml.jackson.databind.SerializationFeature;
import com.fasterxml.jackson.datatype.jsr310.JavaTimeModule; import
com.nhnacademy.springboard.spirngmvcboard.Base; import
com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
com.nhnacademy.springboard.spirngmvcboard.mapper.BoardMapper; import
org.mybatis.spring.mapper.MapperScannerConfigurer; import
org.springframework.context.MessageSource; import org.springframework.context.annotation.Bean; import
org.springframework.context.annotation.ComponentScan; import
org.springframework.context.annotation.Configuration; import
org.springframework.context.support.ResourceBundleMessageSource; import
org.springframework.stereotype.Controller;
```

```

@Configuration @ComponentScan(basePackageClasses = {Base.class}, excludeFilters =
{@ComponentScan.Filter(classes={Controller.class})}) public class RootConfig {

@Bean(name = "objectMapper") public ObjectMapper objectMapper() { ObjectMapper objectMapper =
new ObjectMapper(); //pretty print json objectMapper.enable(SerializationFeature.INDENT_OUTPUT);
//value -> null 무시 objectMapper.setSerializationInclusion(JsonInclude.Include.NON_NULL); //LocalDate,
LocalDateTime support jsr310 objectMapper.registerModule(new JavaTimeModule()); //timestamp 출력을
disable. -> 문자열형태로 출력 objectMapper.disable(SerializationFeature.WRITE_DATES_AS_TIMESTAMPS);
return objectMapper; }

@Bean public MessageSource messageSource() { ResourceBundleMessageSource
resourceBundleMessageSource = new ResourceBundleMessageSource();
resourceBundleMessageSource.setBasename("message");
resourceBundleMessageSource.setDefaultEncoding("UTF-8"); return resourceBundleMessageSource; }

@Bean public MapperScannerConfigurer mapperScannerConfigurer() { MapperScannerConfigurer
configurer = new MapperScannerConfigurer();
configurer.setBasePackage("com.nhnacademy.springboard.spirngmvcboard.mapper"); return configurer; }

}package com.nhnacademy.springboard.spirngmvcboard.config;

import javax.servlet.Filter; import org.springframework.web.context.WebApplicationContext; import
org.springframework.web.filter.CharacterEncodingFilter; import
org.springframework.web.servlet.DispatcherServlet; import
org.springframework.web.servlet.FrameworkServlet; import
org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInitializer;

public class WebAppInitializer extends AbstractAnnotationConfigDispatcherServletInitializer {

@Override protected Class<?>[] getRootConfigClasses() { return new Class[]{RootConfig.class}; }

@Override protected Class<?>[] getServletConfigClasses() { return new Class[]{WebConfig.class}; }

@Override protected String[] getServletMappings() { return new String[]{"/*"}; }

@Override protected Filter[] getServletFilters() { CharacterEncodingFilter encodingFilter = new
CharacterEncodingFilter(); encodingFilter.setEncoding("UTF-8"); encodingFilter.setForceEncoding(true);
return new Filter[]{encodingFilter}; }

@Override protected FrameworkServlet createDispatcherServlet(WebApplicationContext
servletAppContext) { DispatcherServlet dispatcherServlet = new DispatcherServlet();
dispatcherServlet.setApplicationContext(servletAppContext); return dispatcherServlet; } } package
com.nhnacademy.springboard.spirngmvcboard.config;

import com.fasterxml.jackson.databind.util.Converter; import
com.nhnacademy.springboard.spirngmvcboard.init.DatabasesInitializer; import
com.nhnacademy.springboard.spirngmvcboard.mapper.BoardMapper; import
com.nhnacademy.springboard.spirngmvcboard.mapper.PostMapper; import
com.nhnacademy.springboard.spirngmvcboard.mapper.UserMapper; import
com.nhnacademy.springboard.spirngmvcboard.service.UserService; import
com.nhnacademy.springboard.spirngmvcboard.thymeleaf.CustomTagDialet; import java.time.LocalDate;

```

```
import java.time.LocalDateTime; import java.time.format.DateTimeFormatter; import
org.springframework.beans.BeansException; import org.springframework.context.ApplicationContext;
import org.springframework.context.ApplicationContextAware; import
org.springframework.context.MessageSource; import org.springframework.context.MessageSourceAware;
import org.springframework.context.annotation.Bean; import
org.springframework.context.annotation.ComponentScan; import
org.springframework.context.annotation.Configuration; import
org.springframework.format.FormatterRegistry; import org.springframework.util.StringUtils; import
org.springframework.web.servlet.config.annotation.EnableWebMvc; import
org.springframework.web.servlet.config.annotation.ResourceHandlerRegistry; import
org.springframework.web.servlet.config.annotation.ViewResolverRegistry; import
org.springframework.web.servlet.config.annotation.WebMvcConfigurer; import
org.springframework.web.servlet.resource.PathResourceResolver; import
org.thymeleaf.spring5.SpringTemplateEngine; import
org.thymeleaf.spring5.templateresolver.SpringResourceTemplateResolver; import
org.thymeleaf.spring5.view.ThymeleafViewResolver; import org.thymeleaf.templatemode.TemplateMode;
```

```
@Configuration @EnableWebMvc @ComponentScan(basePackageClasses =
{com.nhnacademy.springboard.spirngmvcboard.controller.ControllerBase.class}) public class WebConfig
implements WebMvcConfigurer, ApplicationContextAware, MessageSourceAware { ApplicationContext
applicationContext; MessageSource messageSource; @Override public void
setApplicationContext(ApplicationContext applicationContext) throws BeansException {
this.applicationContext = applicationContext; }
```

```
@Override public void setMessageSource(MessageSource messageSource) { this.messageSource =
messageSource; } @Bean public ThymeleafViewResolver thymeleafViewResolver() {
ThymeleafViewResolver thymeleafViewResolver = new ThymeleafViewResolver();
thymeleafViewResolver.setTemplateEngine(springTemplateEngine());
thymeleafViewResolver.setCharacterEncoding("UTF-8"); thymeleafViewResolver.setOrder(1);
thymeleafViewResolver.setViewNames(new String[]{"*"}); return thymeleafViewResolver; } public
SpringTemplateEngine springTemplateEngine() { SpringTemplateEngine templateEngine = new
SpringTemplateEngine(); templateEngine.setTemplateResolver(springResourceTemplateResolver());
templateEngine.setTemplateEngineMessageSource(messageSource); templateEngine.addDialect(new
CustomTagDialect()); return templateEngine;
}
```

```
@Bean public DatabaseInitializer databaseInitializer(UserService userService, BoardMapper boardMapper,
PostMapper postMapper, UserMapper userMapper) { return new DatabaseInitializer(userService,
boardMapper, postMapper, userMapper); } @Override public void addFormatters(FormatterRegistry
registry) { registry.addConverter(String.class, LocalDate.class, source -> { if (source == null ||
source.isEmpty()) { return null; } return LocalDate.parse(source, DateTimeFormatter.ofPattern("yyyy-MM-
dd")); }); }
```

```
public SpringResourceTemplateResolver springResourceTemplateResolver() {
SpringResourceTemplateResolver templateResolver = new SpringResourceTemplateResolver();
templateResolver.setApplicationContext(applicationContext);
templateResolver.setCharacterEncoding("UTF-8"); templateResolver.setPrefix("/WEB-INF/views/");
```

```
templateResolver.setSuffix(".html"); templateResolver.setCacheable(false);
templateResolver.setTemplateMode(TemplateMode.HTML); return templateResolver; }

@Override public void addResourceHandlers(ResourceHandlerRegistry registry) {
registry.addResourceHandler("/resources/**") .addResourceLocations("/resources/")
.setCachePeriod(3600) .resourceChain(true) .addResolver(new PathResourceResolver()); }

@Override public void configureViewResolvers(ViewResolverRegistry registry) {
registry.viewResolver(thymeleafViewResolver()); } } package
com.nhnacademy.springboard.spirngmvcboard.controller;

import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
com.nhnacademy.springboard.spirngmvcboard.domain.Post; import
com.nhnacademy.springboard.spirngmvcboard.domain.User; import
com.nhnacademy.springboard.spirngmvcboard.service.BoardService; import
com.nhnacademy.springboard.spirngmvcboard.service.PostService; import
java.nio.file.AccessDeniedException; import java.util.List; import javax.servlet.http.HttpSession; import
lombok.extern.slf4j.Slf4j; import org.springframework.stereotype.Controller; import
org.springframework.ui.Model; import org.springframework.web.bind.annotation.GetMapping; import
org.springframework.web.bind.annotation.ModelAttribute; import
org.springframework.web.bind.annotation.PathVariable; import
org.springframework.web.bind.annotation.PostMapping; import
org.springframework.web.bind.annotation.RequestMapping;

@Slf4j @Controller @RequestMapping("/board") public class BoardController implements ControllerBase {
private final BoardService boardService; private final PostService postService;

public BoardController(BoardService boardService, PostService postService) { this.boardService =
boardService; this.postService = postService; }

@GetMapping public String doCategory(Model model) { try { model.addAttribute("boards",
boardService.findAll()); } catch (Exception e) { e.getMessage(); } return "category/category"; }

@GetMapping("/{id}") public String doBoard(Model model, @PathVariable("id") int id) { log.info("id={}", id);
Board board = boardService.findById((long) id); List posts = postService.findByBoardId(board.getId());
model.addAttribute("posts", posts); model.addAttribute("board", board); // 이 부분을 추가해줍니다.
log.info("posts={}", posts); return "board/posts"; }

@PostMapping("/{boardId}/write") public String createPost(@ModelAttribute Post post, HttpSession
session, @PathVariable Long boardId) { // 수정 User loginUser = (User) session.getAttribute("user");
post.setAuthor(loginUser); post.setBoard(boardService.findById(boardId)); // 수정 postService.save(post);
return "redirect:/board/" + boardId; // 수정 }

@GetMapping("/{boardId}/write") public String showWriteForm(@PathVariable Long boardId, Model model,
HttpSession session) { User user = (User) session.getAttribute("user"); if (user == null) { try { throw new
AccessDeniedException("Access is Denied"); } catch (AccessDeniedException e) { throw new
RuntimeException(e); } } Post post = new Post(); model.addAttribute("post", post);
model.addAttribute("boardId", boardId); // 삭제 model.addAttribute("board",
boardService.findById(boardId)); // 추가 return "board/write"; } } package
com.nhnacademy.springboard.spirngmvcboard.controller;
```

```

public interface ControllerBase {

} package com.nhnacademy.springboard.spirngmvcboard.controller;

import com.nhnacademy.springboard.spirngmvcboard.domain.User; import
com.nhnacademy.springboard.spirngmvcboard.service.FindPasswordRequest; import
com.nhnacademy.springboard.spirngmvcboard.service.LoginRequest; import
com.nhnacademy.springboard.spirngmvcboard.service.LoginService; import
com.nhnacademy.springboard.spirngmvcboard.service.UserService; import
com.nhnacademy.springboard.spirngmvcboard.service.LoginRequest.FindIdRequest; import
java.util.Objects; import javax.servlet.http.Cookie; import javax.servlet.http.HttpServletRequest; import
javax.servlet.http.HttpServletResponse; import javax.servlet.http.HttpSession; import
lombok.RequiredArgsConstructor; import lombok.extern.slf4j.Slf4j; import
org.springframework.stereotype.Controller; import org.springframework.ui.Model; import
org.springframework.web.bind.annotation.GetMapping; import
org.springframework.web.bind.annotation.ModelAttribute; import
org.springframework.web.bind.annotation.PostMapping; import
org.springframework.web.bind.annotation.RequestMapping;

@Slf4j @RequestMapping("/") @Controller @RequiredArgsConstructor public class LoginController
implements ControllerBase { private final LoginService loginService; private final UserService userService;

@GetMapping("/login") public String isLogin(Model model, HttpServletRequest request) { HttpSession
session = request.getSession(true); User user = (User) session.getAttribute("user"); if
(Objects.isNull(user)) { return "login/loginForm"; } model.addAttribute("user", user);

return "main";

} @PostMapping("/login") public String doLogin(@ModelAttribute("LoginRequest") LoginRequest
loginRequest, Model model, HttpServletRequest request) { try { if (loginService.isValidate(loginRequest)) {
User user = userService.findByUseremail(loginRequest.getEmail()); if (user == null) {
model.addAttribute("errorMessage", "해당 계정이 존재하지 않습니다."); return "login/loginForm"; } HttpSession
session = request.getSession(false); session.setAttribute("user", user); return "redirect:/login"; } else { // 로
그인 실패 시 에러 메시지를 추가합니다. model.addAttribute("errorMessage", "이메일 또는 비밀번호가 잘못되었습니
다."); return "login/loginForm"; } } catch (Exception e) { log.error("Login failed: {}", e.getMessage(), e);
model.addAttribute("errorMessage", e.getMessage()); return "login/loginForm"; } }

@GetMapping("/logout") public String doLogout(HttpServletRequest request, HttpServletResponse
response) { HttpSession session = request.getSession(false); session.removeAttribute("user"); Cookie
cookie = new Cookie("JSESSIONID", ""); cookie.setMaxAge(0); cookie.setValue(null);
response.addCookie(cookie); return "redirect:/login"; } @GetMapping("/find-password") public String
findPasswordForm(Model model) { model.addAttribute("FindPasswordRequest", new
FindPasswordRequest()); return "user/find-password"; }

@PostMapping("/find-password") public String findPassword(@ModelAttribute FindPasswordRequest
findPasswordRequest, Model model) { User user =
userService.findByUseremail(findPasswordRequest.getEmail()); if (user == null) {

```

```
model.addAttribute("errorMessage", "해당 이메일로 가입한 사용자가 존재하지 않습니다."); return "user/find-  
password"; } model.addAttribute("message", "해당 이메일로 가입한 사용자의 비밀번호는 " + user.getPassword()  
+ " 입니다."); return "user/find-password-result"; }
```

```
@GetMapping("/find-id") public String findIdForm(Model model) { model.addAttribute("FindIdRequest",  
new FindIdRequest()); return "user/find-id"; }
```

```
@PostMapping("/find-id") public String findId(@ModelAttribute FindIdRequest findIdRequest, Model model)  
{ User user = userService.findByUseremail(findIdRequest.getEmail()); if (user == null) {  
model.addAttribute("errorMessage", "해당 이메일로 가입한 사용자가 존재하지 않습니다."); return "user/find-id"; }  
model.addAttribute("message", "해당 이메일로 가입한 사용자의 아이디는 " + user.getUsername() + " 입니다.");  
return "user/find-id-result"; } } package com.nhnacademy.springboard.spirngmvcboard.controller;
```

```
import com.nhnacademy.springboard.spirngmvcboard.domain.User; import  
javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpSession; import  
org.springframework.stereotype.Controller; import org.springframework.ui.Model; import  
org.springframework.web.bind.annotation.GetMapping; import  
org.springframework.web.bind.annotation.RequestMapping;
```

```
@Controller @RequestMapping("/") public class MainController implements ControllerBase {  
@GetMapping("/") public String mainPage(Model model, HttpServletRequest request) { HttpSession  
session = request.getSession(false); if (session != null) { User user = (User) session.getAttribute("user"); if  
(user != null) { model.addAttribute("user", user); } } return "main"; } } package  
com.nhnacademy.springboard.spirngmvcboard.controller;
```

```
import com.nhnacademy.springboard.spirngmvcboard.domain.User; import  
com.nhnacademy.springboard.spirngmvcboard.service.UserService; import java.util.List; import  
lombok.extern.slf4j.Slf4j; import org.springframework.stereotype.Controller; import  
org.springframework.ui.Model; import org.springframework.web.bind.annotation.GetMapping; import  
org.springframework.web.bind.annotation.ModelAttribute; import  
org.springframework.web.bind.annotation.PathVariable; import  
org.springframework.web.bind.annotation.PostMapping; import  
org.springframework.web.bind.annotation.RequestMapping;
```

```
@Slf4j @Controller @RequestMapping("/usermanage") public class ManagementUserController  
implements ControllerBase {
```

```
private final UserService userService;
```

```
public ManagementUserController(UserService userService) { this.userService = userService; }
```

```
@GetMapping("/list") public String doUserManage(Model model) { List userList = userService.findAll();  
model.addAttribute("userlist", userList); return "managementUser"; }
```

```
@GetMapping("/delete/{id}") public String doDeleteUser(@PathVariable("id") Long id, Model model) {  
userService.delete(id); model.addAttribute("userList", userService.findAll()); return  
"redirect:/usermanage/list"; }
```

```
@GetMapping("/update/{id}") public String validateUpdateUser(@PathVariable("id") Long id, Model model)  
{ User user = userService.findById(id); if (user == null) { model.addAttribute("error", "해당 사용자가 없습니
```



```
다."); return "managementUser"; } model.addAttribute("user", user); return "userUpdate"; }
```

```
@PostMapping("/update/{id}") public String doUpdate(@ModelAttribute("user") User user,
@PathVariable("id") Long id, Model model) { User existingUser = userService.findById(id); if (existingUser
== null) { model.addAttribute("error", "해당 사용자가 없습니다."); return "managementUser"; }
existingUser.setUsername(user.getUsername()); existingUser.setPassword(user.getPassword());
existingUser.setEmail(user.getEmail()); existingUser.setBirthDate(user.getBirthDate());
userService.update(existingUser); model.addAttribute("userList", userService.findAll()); return
"userRegist"; } } package com.nhnacademy.springboard.spirngmvcboard.controller;
```

```
import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
com.nhnacademy.springboard.spirngmvcboard.domain.Post; import
com.nhnacademy.springboard.spirngmvcboard.domain.User; import
com.nhnacademy.springboard.spirngmvcboard.service.BoardService; import
com.nhnacademy.springboard.spirngmvcboard.service.PostService; import
com.nhnacademy.springboard.spirngmvcboard.service.UserService; import
java.nio.file.AccessDeniedException; import javax.servlet.http.HttpSession; import
org.apache.ibatis.javassist.NotFoundException; import org.springframework.stereotype.Controller; import
org.springframework.ui.Model; import org.springframework.web.bind.annotation.GetMapping; import
org.springframework.web.bind.annotation.ModelAttribute; import
org.springframework.web.bind.annotation.PathVariable; import
org.springframework.web.bind.annotation.PostMapping; import
org.springframework.web.bind.annotation.RequestMapping; import
org.springframework.web.bind.annotation.RequestParam;
```

```
@Controller @RequestMapping("/board") public class PostController implements ControllerBase{
```

```
private final PostService postService;
private final BoardService boardService;
private final UserService userService ;
public PostController(PostService postService, BoardService boardService,
UserService userService) {
    this.postService = postService;
    this.boardService = boardService;
    this.userService = userService;
}
```

```
@GetMapping("/{boardId}/post/{postId}")
public String viewPost(@PathVariable("boardId") Long boardId,
@PathVariable("postId") Long postId, Model model) {
    Post post = postService.findById(postId);
    User author = userService.findById(post.getAuthor().getId());
    post.setAuthor(author);

    if (post == null) {

        try {
            throw new NotFoundException("Post not found with id " + postId);
        } catch (NotFoundException e) {
```

```

        throw new RuntimeException(e);
    }
}
Board board = boardService.findById(boardId);
post.setBoard(board);
if (board == null) {
    try {
        throw new NotFoundException("Board not found with id " + boardId);
    } catch (NotFoundException e) {
        throw new RuntimeException(e);
    }
}
model.addAttribute("board", board);
model.addAttribute("post", post);
return "board/post";
}

```

```

@GetMapping("/{boardId}/post/{postId}/edit") public String showEditForm(@PathVariable("boardId") Long
boardId, @PathVariable("postId") Long postId, Model model, HttpSession session) { User user = (User)
session.getAttribute("user"); Post post = postService.findById(postId);

```

```

// 로그인한 유저와 게시물 작성자가 같은 경우에만 수정 가능
if (user != null && post.getAuthor().getId().equals(user.getId())) {
    model.addAttribute("post", post);
    return "board/edit";
} else {
    try {
        throw new AccessDeniedException("Access is Denied");
    } catch (AccessDeniedException e) {
        throw new RuntimeException(e);
    }
}
}

```

```

}

```

```

@PostMapping("/{boardId}/post/{postId}/edit") public String updatePost(@PathVariable("boardId") Long
boardId, @PathVariable("postId") Long postId, @ModelAttribute Post updatedPost, HttpSession session) {
User loginUser = (User) session.getAttribute("user"); Post post = postService.findById(postId);

```

```

// 로그인한 유저와 게시물 작성자가 같은 경우에만 수정 가능
if (loginUser != null &&
post.getAuthor().getId().equals(loginUser.getId())) {
    post.setTitle(updatedPost.getTitle());
    post.setContent(updatedPost.getContent());
    postService.save(post);
    return "redirect:/board/" + boardId + "/post/" + postId;
} else {

```

```

    try {
        throw new AccessDeniedException("Access is Denied");
    } catch (AccessDeniedException e) {
        throw new RuntimeException(e);
    }
}

```

```

}

```

```

@PostMapping("/{boardId}/post/{postId}/delete") public String deletePost(@PathVariable("boardId") Long
boardId, @PathVariable("postId") Long postId, HttpSession session) { User loginUser = (User)
session.getAttribute("user"); Post post = postService.findById(postId);

```

```

// 로그인한 유저와 게시물 작성자가 같은 경우에만 삭제 가능
if (loginUser != null &&
post.getAuthor().getId().equals(loginUser.getId())) {
    postService.delete(postId);
    return "redirect:/board/" + boardId;
} else {
    try {
        throw new AccessDeniedException("Access is Denied");
    } catch (AccessDeniedException e) {
        throw new RuntimeException(e);
    }
}
}

```

```

}

```

```

}

```

```

package com.nhnacademy.springboard.spirngmvcboard.controller;

```

```

import com.nhnacademy.springboard.spirngmvcboard.domain.User; import
com.nhnacademy.springboard.spirngmvcboard.service.UserService; import lombok.extern.slf4j.Slf4j; import
org.springframework.format.annotation.DateTimeFormat; import
org.springframework.stereotype.Controller; import org.springframework.ui.Model; import
org.springframework.web.bind.annotation.GetMapping; import
org.springframework.web.bind.annotation.ModelAttribute; import
org.springframework.web.bind.annotation.PostMapping; import
org.springframework.web.bind.annotation.RequestMapping; @Slf4j @Controller @RequestMapping("/")
public class RegistController { private final UserService userService;

```

```

public RegistController(UserService userService) { this.userService = userService; }

```

```

@PostMapping("/regist") public String doRegist(@ModelAttribute("user") @DateTimeFormat(pattern =
"yyyy-MM-dd") User user, Model model) { User existingUser =
userService.findByUseremail(user.getEmail());

```

```

    if (existingUser != null) {
        model.addAttribute("error", "이미 존재하는 사용자 이메일입니다. 다른 사용자 이메일을 선택해주세요.");
        log.info("User already exists: {}", user.getUsername());
        return "userRegist";
    }

    try {
        userService.save(user);
    } catch (Exception e) {
        model.addAttribute("error", "등록 중 오류가 발생했습니다. 다시 시도해주세요.");
        return "userRegist";
    }

    return "redirect:/";
}

```

```

}

@GetMapping("/regist") public String doRegist() { return "userRegist"; } } package
com.nhnacademy.springboard.spirngmvcboard.domain;

import lombok.Getter; import lombok.Setter; import lombok.ToString;

@Getter @Setter @ToString public class Board { private Long id; private String name; private String
description;

```

```

    public Board() {
    }

    public Board(String name, String description) {
        this.name = name;
        this.description = description;
    }
}

```

```

}

package com.nhnacademy.springboard.spirngmvcboard.domain;

import com.nhnacademy.springboard.spirngmvcboard.utility.DomainUtil; import java.time.LocalDate; import
java.time.LocalDateTime; import java.util.Objects; import lombok.Getter; import lombok.Setter; import
lombok.ToString; // 도메인 클래스 @Getter @Setter @ToString public class Post { private Long id; private
String title; private String content; private LocalDateTime createdAt; private LocalDateTime updatedAt;
private Long authorId; private Long boardId; private User author; private Board board; public Post(){} public
Post(String title, String content, User author, Board board) { this.title = title; this.content = content;
this.createdAt = LocalDateTime.now(); this.updatedAt = LocalDateTime.now(); this.author = author;
this.board = board; } public Post(String title, String content, User author, Board board, LocalDateTime

```

```

createdAt, LocalDateTime updatedAt) { this.title = title; this.content = content; this.createdAt = createdAt;
this.updatedAt = updatedAt; this.author = author; this.board = board; } public void setAuthor(User author) {
this.author = author; this.authorId = author.getId(); }

```

```

public void setBoard(Board board) { this.board = board; this.boardId = board.getId(); } public Board
getBoard() { return board; }

```

```

}

```

```

//package com.nhnacademy.springboard.spirngmvcboard.domain; // // import
com.nhnacademy.springboard.spirngmvcboard.utility.DomainUtil; // import java.time.LocalDate; // import
java.time.LocalDateTime; // import java.util.Objects; // import lombok.Getter; // import lombok.Setter; //
import lombok.ToString; //// 도메인 클래스 //@Getter //@Setter //@ToString //public class Post { // private Long
id; // private String title; // private String content; // private LocalDateTime createdAt; // private
LocalDateTime updatedAt; // private Long authorId; // private Long boardId; // // public Post(){} // public
Post(String title, String content, Long authorId, Long boardId) { // this.title = title; // this.content = content; //
this.createdAt = LocalDateTime.now(); // this.updatedAt = LocalDateTime.now(); // this.authorId = authorId;
// this.boardId = boardId; // } // public Post(String title, String content, Long authorId, Long boardId,
LocalDateTime createdAt, LocalDateTime updatedAt) { // this.title = title; // this.content = content; //
this.createdAt = createdAt; // this.updatedAt = updatedAt; // this.authorId = authorId; // this.boardId =
boardId; // } // // }

```

```

package com.nhnacademy.springboard.spirngmvcboard.domain;

```

```

import java.time.LocalDate; import java.time.LocalDateTime; import lombok.Getter; import lombok.Setter;
import lombok.ToString; import org.springframework.format.annotation.DateTimeFormat;

```

```

@ToString @Getter @Setter public class User { private Long id; private String username; private String
password; private String email;

```

```

@DateTimeFormat(pattern = "yyyy-MM-dd") private LocalDate birthDate; private LocalDateTime createdAt;

```

```

public User() { }

```

```

public User(String username, String password, String email, LocalDate birthDate) { this.username =
username; this.password = password; this.email = email; this.birthDate = birthDate; }

```

```

} package com.nhnacademy.springboard.spirngmvcboard.init;

```

```

import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
com.nhnacademy.springboard.spirngmvcboard.domain.Post; import
com.nhnacademy.springboard.spirngmvcboard.domain.User; import
com.nhnacademy.springboard.spirngmvcboard.mapper.BoardMapper; import
com.nhnacademy.springboard.spirngmvcboard.mapper.PostMapper; import
com.nhnacademy.springboard.spirngmvcboard.mapper.UserMapper; import
com.nhnacademy.springboard.spirngmvcboard.service.UserService; import java.time.LocalDate; import
java.time.LocalDateTime; import java.util.ArrayList; import java.util.List; import lombok.extern.slf4j.Slf4j;
import org.springframework.beans.factory.annotation.Autowired; import
org.springframework.context.annotation.Bean; import org.springframework.stereotype.Component;

```

```

@Slf4j @Component public class DatabaseInitializer {

```

```
private final UserService userService; private final BoardMapper boardMapper; private final PostMapper
postMapper; private final UserMapper userMapper;

@Autowired public DatabaseInitializer(UserService userService, BoardMapper boardMapper, PostMapper
postMapper, UserMapper userMapper) { this.userService = userService; this.boardMapper = boardMapper;
this.postMapper = postMapper; this.userMapper = userMapper; }

@Bean public void initializeDatabase() { Board board1 = new Board("공지사항", "웹 사이트 관련 공지사항"); if
(boardMapper.findById(1L) == null) { boardMapper.save(board1); }
board1.setId(boardMapper.findByName("공지사항").getId());
```

```
log.info("board1 id: {}", board1.getId());

Board board2 = new Board("자유게시판", "자유롭게 글을 올리는 게시판입니다.");
if (boardMapper.findById(2L) == null) {
    boardMapper.save(board2);
}
board2.setId(boardMapper.findByName("자유게시판").getId());

log.info("board2 id: {}", board2.getId());

User user = new User("admin", "1234", "admin@nhnacademy.com",
LocalDate.now());
if (userMapper.findByUseremail(user.getEmail()) == null) {
    userMapper.save(user);
} else {
    user.setId(userMapper.findByUseremail(user.getEmail()).getId());
}

Post post1 = new Post("서비스 이용 안내", "안녕하세요. NHN Academy 웹 사이트를 이용해
주시는 여러분께 감사드립니다.", user, board1);
post1.setId(1L);
post1.setCreatedAt(LocalDateTime.now().minusDays(7));
post1.setUpdatedAt(LocalDateTime.now().minusDays(7));

Post post2 = new Post("나만의 공부법", "여러분은 자신만의 공부법이 있으신가요? 제가 추천하
는 공부법을 소개합니다.", user, board2);
post2.setId(2L);
post2.setCreatedAt(LocalDateTime.now().minusDays(5));
post2.setUpdatedAt(LocalDateTime.now().minusDays(5));

Post post3 = new Post("자유롭게 글을 올려보세요", "이 게시판은 자유롭게 글을 올리는 공간입
니다.", user, board2);
post3.setId(3L);
post3.setCreatedAt(LocalDateTime.now().minusDays(3));
post3.setUpdatedAt(LocalDateTime.now().minusDays(3));

Post post4 = new Post("NHN IT 교육 서비스 이용 후기", "NHN에서 제공하는 IT 교육 서비스
를 이용하셨나요? 후기를 남겨보세요!", user, board2);
post4.setId(4L);
```

```

post4.setCreatedAt(LocalDate.now().minusDays(1));
post4.setUpdatedAt(LocalDate.now().minusDays(1));

savePostIfNotExists(post1);
savePostIfNotExists(post2);
savePostIfNotExists(post3);
savePostIfNotExists(post4);

```

```

}

```

```

private void savePostIfNotExists(Post post) { // 게시물의 ID를 이용해 이미 존재하는지 확인 Post existingPost =
postMapper.findById(post.getId()); if (existingPost == null) { // 게시물이 존재하지 않으면 저장
postMapper.save(post); } } package com.nhnacademy.springboard.spirngmvcboard.mapper;

```

```

import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
org.apache.ibatis.annotations.Mapper; import java.util.List;

```

```

@Mapper public interface BoardMapper { void save(Board board);

```

```

Board findById(Long id);

```

```

Board findByName(String title);

```

```

void update(Board board);

```

```

void delete(Long id);

```

```

List findAll(); } package com.nhnacademy.springboard.spirngmvcboard.mapper;

```

```

import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
com.nhnacademy.springboard.spirngmvcboard.domain.Post; import org.apache.ibatis.annotations.Delete;
import org.apache.ibatis.annotations.Insert; import org.apache.ibatis.annotations.Mapper; import
org.apache.ibatis.annotations.Select; import org.apache.ibatis.annotations.Update; import java.util.List;

```

```

@Mapper public interface PostMapper { void save(Post post);

```

```

Post findById(Long id);

```

```

void update(Post post);

```

```

void delete(Long id);

```

```

List findAll(); List findByBoard(Board board); List findByBoardId(Long boardId); List findByAuthorId(Long
userId);

```

```

} package com.nhnacademy.springboard.spirngmvcboard.mapper;

```

```

import com.nhnacademy.springboard.spirngmvcboard.domain.User; import
org.apache.ibatis.annotations.Delete; import org.apache.ibatis.annotations.Insert; import
org.apache.ibatis.annotations.Mapper; import org.apache.ibatis.annotations.Select; import
org.apache.ibatis.annotations.Update; import java.util.List; import
org.springframework.stereotype.Repository;

```

```
@Mapper public interface UserMapper { void save(User user); User findById(Long id);

User findByUsername(String username); User findByUseremail(String email);

void update(User user);

void delete(Long id);

List findAll(); } package com.nhnacademy.springboard.spirngmvcboard.service.impl;

import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
com.nhnacademy.springboard.spirngmvcboard.mapper.BoardMapper; import
com.nhnacademy.springboard.spirngmvcboard.service.BoardService; import java.util.List; import
lombok.RequiredArgsConstructor; import org.springframework.stereotype.Service;

@Service @RequiredArgsConstructor public class BoardServiceImpl implements BoardService { private
final BoardMapper boardMapper; @Override public void save(Board board) { boardMapper.save(board); }
@Override public Board findById(Long id) { return boardMapper.findById(id); }

@Override public void update(Board board) { boardMapper.update(board); }

@Override public Board findByName(String title) { return boardMapper.findByName(title); }

@Override public void delete(Long id) { boardMapper.delete(id); }

@Override public List findAll() { return boardMapper.findAll(); }

} package com.nhnacademy.springboard.spirngmvcboard.service.impl;

import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
com.nhnacademy.springboard.spirngmvcboard.domain.Post; import
com.nhnacademy.springboard.spirngmvcboard.mapper.PostMapper; import
com.nhnacademy.springboard.spirngmvcboard.service.PostService; import java.util.List; import
lombok.RequiredArgsConstructor; import org.springframework.stereotype.Service; import
org.springframework.transaction.annotation.Transactional;

@RequiredArgsConstructor @Transactional @Service public class PostServiceImpl implements PostService
{ private final PostMapper postMapper;

@Override public void save(Post post) { postMapper.save(post); }

@Override public Post findById(Long id) { return postMapper.findById(id); }

@Override public List findByAuthorId(Long userId) { return postMapper.findByAuthorId(userId); }

@Override public void update(Post post) { postMapper.update(post); }

@Override public void delete(Long id) { postMapper.delete(id); }

@Override public List findAll() { return postMapper.findAll(); }

@Override public List findByBoard(Board board) { return postMapper.findByBoardId(board.getId()); }

@Override public List findByBoardId(Long boardId) { return postMapper.findByBoardId(boardId); }
```



```

} package com.nhnacademy.springboard.spirngmvcboard.service.impl;

import com.nhnacademy.springboard.spirngmvcboard.domain.User; import
com.nhnacademy.springboard.spirngmvcboard.mapper.UserMapper; import
com.nhnacademy.springboard.spirngmvcboard.repository.UserRepository; import
com.nhnacademy.springboard.spirngmvcboard.service.UserService; import java.util.List; import
lombok.RequiredArgsConstructor; import org.springframework.stereotype.Service;

@Service @RequiredArgsConstructor public class UserServiceImpl implements UserService { private final
UserMapper userMapper; @Override public void save(User user) { userMapper.save(user); }

@Override public User findById(Long id) { return userMapper.findById(id); }

@Override public User findByUsername(String username) { return userMapper.findByUsername(username);
}

@Override public User findByUseremail(String email) { return userMapper.findByUseremail(email); }

@Override public void update(User user) { userMapper.update(user); }

@Override public void delete(Long id) { userMapper.delete(id); }

@Override public List findAll() { return userMapper.findAll(); }

} package com.nhnacademy.springboard.spirngmvcboard.service;

import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import java.util.List;

public interface BoardService { void save(Board board); Board findByName(String title);

```

```

Board findById(Long id);
void update(Board board);
void delete(Long id);
List<Board> findAll();

```

```

} package com.nhnacademy.springboard.spirngmvcboard.service;

import lombok.Getter; import lombok.Setter;

@Getter @Setter public class FindPasswordRequest { private String email; private String password; }
package com.nhnacademy.springboard.spirngmvcboard.service;

import javax.validation.constraints.NotBlank; import lombok.Getter; import lombok.Setter;

@Getter @Setter public class LoginRequest { @NotBlank(message="이메일을 입력하세요") private String
email; @NotBlank(message="비밀번호를 입력하세요") private String pwd;

@Getter @Setter public static class FindIdRequest { private String email;

```

```

// 생성자, getter, setter

```

---

```
} } package com.nhnacademy.springboard.spirngmvcboard.service;

import com.nhnacademy.springboard.spirngmvcboard.domain.User; import
com.nhnacademy.springboard.spirngmvcboard.mapper.UserMapper; import
lombok.RequiredArgsConstructor; import lombok.extern.slf4j.Slf4j; import
org.springframework.stereotype.Service; @Slf4j @Service @RequiredArgsConstructor public class
LoginService { private final UserMapper userMapper;

public boolean isValid(LoginRequest loginRequest) { User user =
userMapper.findByUseremail(loginRequest.getEmail()); boolean result = user != null &&
user.getPassword().equals(loginRequest.getPwd()); log.info("isValid : {}", result); return result; } }
package com.nhnacademy.springboard.spirngmvcboard.service;

import com.nhnacademy.springboard.spirngmvcboard.domain.Board; import
com.nhnacademy.springboard.spirngmvcboard.domain.Post; import
com.nhnacademy.springboard.spirngmvcboard.domain.User; import java.util.List;

public interface PostService { void save(Post post);

Post findById(Long id); void update(Post post); void delete(Long id); List findByAuthorId(Long userId); List
findAll(); List findByBoard(Board board); List findByBoardId(Long boardId); }
```