Member And Board



Good Releation - 좋은 사이



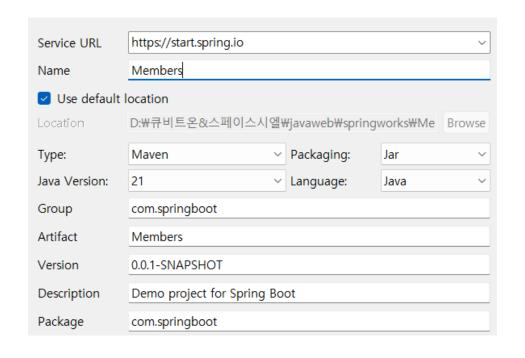
로그인 | 회원 가입 | 회원 목록 | 게시판

■ 프로젝트 계층 구조도

- > Members2 [boot] [devtools] [javaweb main] 🕆 려 src/main/java BoardController.java HomeController.java MemberController.java ∨ 媽 dto BoardDTO.java MemberDTO.java Board.java Member.java y

 □ repository BoardRepository.java MemberRepository.java BoardService.java MemberService.java
- Static templates board detail.html list.html 🖪 pages.html update.html write.html 🗸 🗁 error ♣ 404.html member info html ioin.html list.html login.html index.html > application.properties

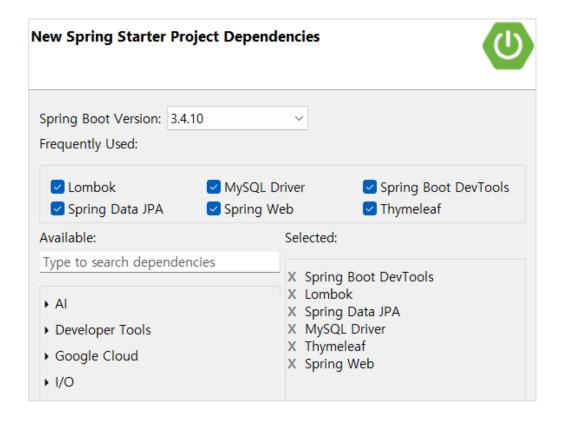
■ 프로젝트 생성 및 기본 설정



[New] -> [Spring Starter Project]

Name – Members
Type - Maven
Packing – Jar
Java Version – 21
Group – com.springboot
Package – com.springboot.jpa

■ 프로젝트 생성 및 기본 설정



■ JPA 및 MySQL 설정

```
# DataSource 설정 - mysql
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://127.0.0.1:3306/bootdb?serverTime=Asia/Seoul
spring.datasource.username=bootuser
spring.datasource.hikari.password=pwboot

# JPA 설정
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.format_sql=true
spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect
```

HomeController

```
@Controller
public class HomeController {

    @GetMapping("/")
    public String Home() {
        return "index";
    }
}
```

index.html

```
<section id="container">
   <div id="main">
       <h2>Good Releation - 좋은 사이</h2>
       <div class="main-pic">
          <img alt="점포" th:src="@{/images/time.jpg}">
       </div>
       <div class="menu">
          <th:block th:if="${session.loginEmail}">
              <span style="color: ■ blue"</pre>
                   <a th:href="@{/members/logout}" th:text='로コ아웃'></a> |
          <th:block th:unless="${session.loginEmail}">
              <a th:href="@{/members/Login}" th:text='로コ인'></a> |
          </th:block>
          <a th:href="@{/members/join}">회원 가입</a> |
          <a th:href="@{/members}">회원 목록</a> |
          <a th:href="@{/boards/pages}">게시판</a>
       </div>
   </div>
</section>
```

style.css

```
/* 공통 스타일 */
#container{
    width: 80%;
    margin: 0 auto;
ul li{list-style: none; margin: 16px;}
table thead{background-color: \( \Boxed{\text{#eee}} \)
button{padding: 5px 10px;}
.msg{color: ■ #00f; margin: 10px;}
.error{color: <math>\blacksquare #f00; margin: 10px;}
/* index 스타일 */
#main{text-align: center;}
h2{
    border-bottom: 2px solid □ #ccc;
    padding: 16px;
    text-align: center;
.main-pic img{width: 40%; border-radius: 8px;}
.menu{margin: 10px;}
```

style.css

```
/* join 스타일 */
.joinForm, .loginForm{
    width: 400px;
    margin: 0 auto;
                                      /* memberInfo 스타일 */
.joinForm label, .loginForm label{
                                      .memberInfo{
    width: 80px;
                                          width: 400px;
    float: Left;
                                          margin: 0 auto;
                                      .memberInfo label{
/* memberList 스타일 */
                                          width: 80px;
.memberList, .boardList{
                                          float: left;
    width: 600px;
    margin: 20px auto;
                                       .btnInfo{margin: 16px;}
    border: 1px solid □ #ccc;
                                       .btnInfo a{text-decoration: none}
    border-collapse: collapse;
.memberList, th, td, .boardList th, td{
    border: 1px solid □ #ccc;
    padding: 5px 10px;
```

MemberDTO

```
@ToString
@Setter
@Getter
public class MemberDTO {
    private Long id;
    private String email;
    private String passwd;
    private String name;
    private String gender;
    private Timestamp joinDate;
}
```

Member

```
@Data
@Table(name = "t_member")
@Entity
public class Member {
    @Id
    @GeneratedValue(strategy=GenerationType.IDENTITY)
    private Long id;
    @Column(unique=true)
    private String email;
    @Column(nullable=false)
    private String passwd;
    @Column(length=30, nullable=false)
    private String name;
```

Member

```
@Column(length=10)
private String gender;
@CreationTimestamp
private Timestamp joinDate;
//DTO를 Entity로 변환하는 메서드
public static Member toSaveEntity(MemberDTO dto) {
    Member member = new Member();
    member.setEmail(dto.getEmail());
    member.setPasswd(dto.getPasswd());
    member.setName(dto.getName());
    member.setGender(dto.getGender());
    return member;
```

MemberRepository

```
public interface MemberRepository extends JpaRepository<Member, Long>{
    //이메일로 회원을 검색하는 메서드
    Optional<Member> findByEmail(String email);
}
```

MemberService

```
@AllArgsConstructor
@Service
public class MemberService {
    MemberRepository repository;
    //회원 추가
    public void save(MemberDTO dto) {
        if (repository.findByEmail(dto.getEmail()).isPresent()) {
           throw new IllegalArgumentException("이미 존재하는 이메일입니다.");
        //DTO를 Entity로 변환 메서드 호출
        Member member = Member.toSaveEntity(dto);
        repository.save(member);
    //회원 목록
    public List<Member> findAll() {
        return repository.findAll();
```

MemberService

```
//회원 정보
public Member findById(Long id) {
   /*Optional<Member> member = repository.findById(id);
   return member.orElse(null);*/
   //예외 처리
   return repository.findById(id)
            .orElseThrow(
               () -> new IllegalArgumentException("회원이 존재하지 않습니다. ID=" + id));
//회원 삭제
public void delete(Long id) {
   repository.deleteById(id);
```

MemberService

```
//로그인
public MemberDTO login(String email, String passwd) {
   Member member = repository.findByEmail(email)
            .orElseThrow(() -> new IllegalArgumentException("존재하지 않는 이메일입니다."));
   if (!member.getPasswd().equals(passwd)) {
       throw new IllegalArgumentException("비밀번호가 일치하지 않습니다.");
   MemberDTO dto = new MemberDTO();
   dto.setId(member.getId());
   dto.setEmail(member.getEmail());
   dto.setName(member.getName());
   dto.setGender(member.getGender());
   return dto;
```

```
@RequiredArgsConstructor
@RequestMapping("/members")
@Controller
public class MemberController {
    private final MemberService service;
    @GetMapping("/join") //회원 가입 페이지
    public String joinForm() {
        return "member/join";
    @PostMapping("/join") //회원 가입 처리
    public String join(@ModelAttribute MemberDTO dto,
            RedirectAttributes ra) {
        try {
            service.save(dto);
            ra.addFlashAttribute("msg", "회원가입 성공!");
            return "redirect:/members/login";
        }catch(Exception e) {
            ra.addFlashAttribute("error", e.getMessage());
            return "redirect:/members/join";
```

```
@GetMapping //회원 목록
public String getMemberList(Model model) {
    List<Member> memberList = service.findAll();
    model.addAttribute("memberList", memberList);
    return "member/list";
@GetMapping("/{id}") //회원 정보(상세)
public String getMember(@PathVariable Long id,
                        Model model) {
    try {
        Member member = service.findById(id);
        model.addAttribute("member", member);
        return "member/info";
    }catch(IllegalArgumentException e) {
        model.addAttribute("errorMsg", e.getMessage());
        return "error/errorPage";
```

```
//회원 삭제
@GetMapping("/delete/{id}")
public String deleteMember(@PathVariable Long id) {
    service.delete(id);
    return "redirect:/members";
//로그인 페이지
@GetMapping("/login")
public String loginForm() {
    return "member/login";
//로그아웃 처리
@GetMapping("/logout")
public String logout(HttpSession session) {
    session.invalidate();
    return "redirect:/";
```

```
//로그인 처리
@PostMapping("/login")
public String login(@RequestParam String email,
                    @RequestParam String passwd,
                    HttpSession session,
                    Model model,
                    RedirectAttributes ra) {
    try {
        MemberDTO member = service.login(email, passwd);
        //세션 발급 - 이메일, 이름
        session.setAttribute("loginEmail", member.getEmail());
        session.setAttribute("loginName", member.getName());
        return "redirect:/";
    }catch(Exception e) {
        ra.addFlashAttribute("error", e.getMessage());
        return "redirect:/members/login";
```

회원 가입

이메일	coli@robot.com
비밀번호	•••••
이름	박선화
성별	○남 ◉여
가입 취소	
	비밀번호 이름 성별

join.html

```
<section id="container">
   <h2>회원 가입</h2>
   <form th:action="@{/members/join}" method="post"</pre>
               class="joinForm">
       <div th:if="${error}" class="error">
           [[${error}]]
       </div>
       <fieldset>
           <l
               <
                   <label for="email">이메일</label>
                   <input type="text" name="email">
               <
                   <label for="mid">비밀번호</label>
                   <input type="password" name="passwd">
```

join.html

```
<label for="mid">이름</label>
              <input type="text" name="name">
          <1i>>
              <label for="mid">성별</label>
              <input type="radio" name="gender" value="台水" checked>남
              <input type="radio" name="gender" value="여자">여
          <1i>>
              <input type="submit" value="가입">
              <input type="reset" value="취소">
          </fieldset>
/form>
```

회원 목록

번호	이메일	이름	성별	가입일
1	today@space.com	김기용	남자	2025-10-23 19:20
2	coli@robot.com	박선화	여자	2025-10-23 21:55

list.html

```
<h2>회원 목록</h2>
<thead>
  >
   건호
   이메일
   이름
   성별
   가입일
  </thead>
 >
    <a th:href="@{/members/{id}(id=${m.id})}" th:text="${m.email}"></a>
```

■ 세션이 있는 경우

회원 정보

이메일	today@space.com
비밀번호	••••
이름	김기용
성별	●남 ○여
수정 삭제	목록

■ 세션이 없는 경우

회원 정보

이메일	coli@robot.com
비밀번호	••••
이름	우영우
성별	○남 ◉여

info.html

```
<h2>회원 정보</h2>
<div class="memberInfo">
    <fieldset>
        <l
            <1i>>
                <label for="email">이메일</label>
                <input type="text" name="email"</pre>
                    th:value="${member.email}" readonly>
            <1i>>
                <label for="passwd">비밀번호</label>
                <input type="password" name="passwd"</pre>
                    th:value="${member.passwd}" readonly>
            <
                <label for="name">이름</label>
                <input type="text" name="name"</pre>
                    th:value="${member.name}" readonly>
```

info.html

```
<label for="gender">성별</label>
               <input type="radio" name="gender"</pre>
                   value="남자" th:checked="${member.gender=='남자'}">남
               <input type="radio" name="gender"</pre>
                   value="여자" th:checked="${member.gender=='여자'}">여
           </fieldset>
   <div class="btnInfo">
       <th:block th:if="${member.email == session.loginEmail}">
           <a th:href="@{/members/edit/{id}(id=${member.id})}">
               <button> 수정</button>
           </a>
           <a th:href="@{/members/delete/{id}(id=${member.id})}"</pre>
              onclick="return confirm('정말 삭제하시겠습니까?')">
               <button>삭제</button>
          </a>
      </th:block>
       <a th:href="@{/members}"><button>목록</button></a>
   </div>
</div>
```

- 로그인

로그인	로그인
회원가입 성공! 이메일 비밀번호 로그인	이메일 coli@robot.com 비밀번호 ••••• 로그인

회원 가입 후 이동

■ 로그인

존재하지 않는 이메일입니다.

이메일	
비밀번호	
로그인	

비밀번호가 일치하지 않습니다.

이메일	
비밀번호	
로그인	

login.html

```
<h2>로그인</h2>
<form th:action="@{/members/login}" method="post" class="loginForm">
   <div th:if="${msg}" class="msg">
       [[${msg}]]
   </div>
   <div th:if="${error}" class="error">
       [[${error}]]
   </div>
   <fieldset>
       <l
           <label for="email">이메일</label>
              <input type="text" name="email">
           <
              <label for="mid">비밀번호</label>
              <input type="password" name="passwd">
           li>
              <input type="submit" value="로コピ">
           </fieldset>
</form>
```

■ 로그아웃

Good Releation - 좋은 사이



[김기용님] 로그아웃 | 회원 가입 | 회원 목록 | 게시판

errorPage.html