11장. SpringBoard2 – 회원 관리

Security - login



Home

회원가입

로그인

회원목록

게시판

Welcome to our community...



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◆ 프로젝트 계층 구조

```
SpringBoard2 [springwork master]
  ∨ 漏 > com.cloud.controller
       > 🛂 BoardController.java
       > 🚜 > CommonController.java
       > 🛂 HomeController.java
      > 🚂 > MemberController.java
       > 🛂 SampleController.java
    > # > com.cloud.domain

→ 

⊕ > com.cloud.mapper

       > 🛂 BoardMapper.java
       >  MemberAuthMapper.java
       > MemberMapper.java
    > # com.cloud.security.domain
    > BoardService.java
       > 🛂 BoardServiceImpl.java
       > CommonService.java
       > 🖟 CommonServiceImpl.java
      > MemberService.java
      > 🛂 > MemberServiceImpl.java
```

```
√ № > webapp

  > 🗁 > resources
  > 🔄 > upload

√ № > WEB-INF

       classes
    > 🔓 > spring
    🗸 🏣 > views
       > 🗁 > board
       > memberList.jsp
           memberView.jsp
           🔒 > signup.jsp
       > 🔓 sample
         > accessError.jsp
         customLogin.jsp
         > customLogin2.jsp
         customLogout.jsp
         > footer.jsp
         home.jsp
         > index.jsp
         login.jsp
         🔒 > menu.jsp
       > web.xml
```



```
k\\\@ taglib uri="http://www.springframework.org/security/tags" prefix="security" \\\>
<body>
   <nav>
   <security:authorize access="isAnonymous()">
       <l
          <a href="/">Home</a>
                                                                     menu.jsp
          <a href="/member/signup">회원가입</a>
          <a href="/customLogin">로그인</a>
          <a href="/member/memberList">회원목록</a>
          <a href="/board/boardList">게시판</a>
       </security:authorize>
   <security:authentication property="principal" var="pinfo"/>
   <security:authorize access="isAuthenticated()" >
       <l
          <a href="/">Home</a>
          <a href='/member/memberView?userid=<c:out value="${pinfo.username}"/>'>나의 정보</a>
          <a href="/customLogout">(<c:out value="${pinfo.username}" />님)로그아웃</a>
          <a href="/member/memberList">회원목록</a>
          <a href="/board/boardList">게시판</a>
       </security:authorize>
   </nav>
```



```
<title>Welcome~</title>
<link rel="stylesheet" href="/resources/css/style.css">
</head>
<body>
    <jsp:include page="./menu.jsp" />
                                                                   index.jsp
    <div id="container">
        <section id="main">
            <div class="title">
                <h2>Welcome to our community...</h2>
            </div>
            <div>
                <img src="/resources/images/activity.jpg" alt="행글라이더">
            </div>
        </section>
    </div>
    <jsp:include page="./footer.jsp" />
</body>
```



◆ CSS - style

```
@charset "UTF-8";
/* 공통 스타일 */
*{margin: 0; padding: 0;}
li{list-style: none;}
hr{margin: 20px;}
h3,h4{margin: 10px;}
a{text-decoration: none; color: ■ #000}
/* navbar 스타일 */
nav{margin-top: 20px; text-align: right; margin-right: 100px;}
nav ul li{display: inline-block; margin: 10px;
    border-top: 3px solid ■ #222; padding: 10px 15px;}
nav ul li:hover{background: □ #eee;}
/* lavout */
#container{width: 100%; margin: 0 auto; text-align: center;}

i.title{height: 130px; background: □ beige; line-height: 130px;

    margin-bottom: 20px;}
.msg{height: 80px; background: \square pink; line-height: 80px; color: \square brown;}
footer{margin-left: 20%; margin-top: 10%}
```



◆ CSS - style

```
/* login 스타일 */
.tbl login{margin: 20px auto; width: 380px;}
.tbl_login, td{border: 1px solid □ #ccc; border-collapse: collapse;
   padding: 10px;}
.tbl login input{width: 200px; height: 30px; border: 1px solid ■ #aaa;
   border-radius:2px;}
.tbl login input[type="submit"], input[type="reset"]{width: 60px; height: 30px;}
#Login .error{color: ■ #f00; margin-top: 10px;}
/* signup 스타일 */
.tbl signup{margin: 20px auto; width: 400px;}
.tbl signup, td{border: 1px solid \square #ccc; border-collapse: collapse;
   padding: 10px;}
.tbl signup input{width: 200px; height: 30px; border: 1px solid ■ #aaa;
   border-radius:2px;}
.tbl signup input[type="submit"], input[type="button"], input[type="reset"]{width: 60px; height: 30px;}
.tbl signup td:nth-child(1){width: 120px}
.tbl signup .time{text-align: Left;}
```



◆ 회원 설계

```
@Data
public class MemberVO implements Serializable{
    private static final long serialVersionUID = 15L;
    private String userid;
    private String userpw;
    private String username;
    private String enabled;
    private Date regDate;
    private Date updateDate;
    private List<AuthVO> authList;
                  @Data
                  public class AuthVO implements Serializable{
                      private static final long serialVersionUID = 20L;
                      private String userid;
                      private String auth;
```



◆ Mapper 설계

```
public interface MemberMapper {
    public void insertMember(MemberVO member); //회원 가입
    public List<MemberVO> getMemberList(); //회원 목록
    public MemberVO read(String userid); //회원 조회(검색)
    public void deleteMember(MemberVO member); //회원 탈퇴
    public void updateMember(MemberVO member); //회원 수정
}
```

```
public interface MemberAuthMapper {

//회원 가입(권한 부여)
public void insertMemberAuth(AuthVO auth);
}
```



```
<mapper namespace="com.cloud.mapper.MemberMapper">
    <resultMap type="com.cloud.domain.MemberVO" id="memberMap">
        <id property="userid" column="userid"/>
        <result property="userid" column="userid"/>
                                                                  MemberMapper.xml
        <result property="userpw" column="userpw"/>
        <result property="username" column="username"/>
        <result property="regDate" column="regdate"/>
        <result property="updateDate" column="updatedate"/>
        <collection property="authList" resultMap="authMap" />
    </resultMap>
    <resultMap type="com.cloud.domain.AuthVO" id="authMap">
        <result property="userid" column="userid"/>
        <result property="auth" column="auth"/>
    </resultMap>
```



```
<!-- 회원 정보 -->
<select id="read" resultMap="memberMap">
   SELECT mem.userid, userpw, username, enabled, regdate, updatedate, auth
    FROM tbl member mem
        LEFT OUTER JOIN tbl member auth auth
                                                                MemberMapper.xml
        on mem.userid = auth.userid
   WHERE mem.userid = #{userid}
</select>
<!-- 회원 목록 -->
<select id="getMemberList" resultMap="memberMap">
    SELECT mem.userid, mem.username, mem.regdate, auth.auth
    FROM tbl member mem, tbl member auth auth
   WHERE mem.userid = auth.userid
</select>
```



```
<!-- 회원 가입 -->
<insert id="insertMember">
   INSERT INTO tbl_member(userid, userpw, username, enabled)
   VALUES (#{userid}, #{userpw}, #{username}, '1')
</insert>
                                                          MemberMapper.xml
<!-- 회원 삭제 -->
<delete id="deLeteMember">
   DELETE FROM tbl_member WHERE userid = #{userid}
</delete>
<!-- 회원 수정 -->
<update id="updateMember">
   UPDATE tbl_member
   SET userpw = #{userpw}, username = #{username}
   WHERE userid = #{userid}
</update>
```



MemberAuthMapper.xml



◆ Service 설계

```
public interface MemberService {
    public void signup(MemberVO member); //회원 가입
    public List<MemberVO> getMemberList(); //회원 목록
    public MemberVO read(String userid); //회원 상세보기
    public void delete(MemberVO member); //회원 삭제
    public void update(MemberVO member); //회원 수정
}
```



```
@Service
public class MemberServiceImpl implements MemberService{
    @Autowired
    private MemberMapper mapper;
   @Autowired
                                                       MemberServiceImpl.java
    private MemberAuthMapper authMapper;
   @Autowired
    private PasswordEncoder pwencoder;
   @Override
    public void signup(MemberVO member) {
       //비밀번호 암호화
        String encPw = pwencoder.encode(member.getUserpw());
        member.setUserpw(encPw);
        mapper.insertMember(member);
        //기본 ROLE USER 부여
        AuthVO auth = new AuthVO();
        auth.setUserid(member.getUserid());
        auth.setAuth("ROLE USER");
        authMapper.insertMemberAuth(auth);
```



```
@Override
public List<MemberVO> getMemberList() {
    return mapper.getMemberList();
@Override
public MemberVO read(String userid) {
    return mapper.read(userid);
@Override
public void delete(MemberVO member) {
    mapper.deleteMember(member);
@Override
public void update(MemberVO member) {
    //비밀번호 암호화
    String encPw = pwencoder.encode(member.getUserpw());
    member.setUserpw(encPw);
    mapper.updateMember(member);
```



```
@AllArgsConstructor
@Log4j
@RequestMapping("/member/*")
@Controller
public class MemberController {
    private MemberService service; //생성자 주입
    //회원 가입 폼 요청
    @GetMapping("/signup")
    public void signUp() {
        Log.info("회원 가입 폼");
    @PostMapping("/signup")
    public String signUp(MemberVO member, RedirectAttributes rttr) {
        service.signup(member);
        //rttr.addFlashAttribute("result", member.getUserid());
        return "redirect:/board/boardList";
```



```
@AllArgsConstructor
@Log4j
@RequestMapping("/member/*")
@Controller
public class MemberController {
    private MemberService service; //생성자 주입
   //회원 가입 폼 요청
   @GetMapping("/signup")
    public void signUp() {
        Log.info("회원 가입 폼");
   //회원 가입 처리
   @PostMapping("/signup")
    public String signUp(MemberVO member) {
        service.signup(member);
       return "redirect:/customLogin";
```



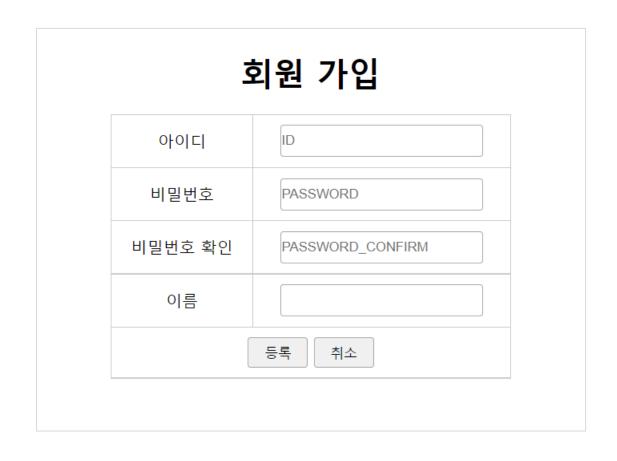
```
//회원 목록 보기
@GetMapping("/memberList")
@PreAuthorize("isAuthenticated()")
public String getMemberList(Model model) {
    List<MemberVO> memberList = service.getMemberList();
    model.addAttribute("memberList", memberList);
    return "/member/memberList";
//회원 상세 보기
@GetMapping("/memberView")
public String read(String userid, Model model) {
    MemberVO member = service.read(userid);
    model.addAttribute("member", member);
    return "/member/memberView";
```



```
//회원 삭제
@GetMapping("/delete")
public String delete(MemberVO member) {
    service.delete(member);
    return "redirect:/member/memberList";
}

//회원 수정
@PostMapping("/update")
public String update(MemberVO member) {
    service.update(member);
    return "redirect:/member/memberList";
}
```







```
<form action="/member/signup" method="post" name="regForm"</pre>
    onsubmit="return checkForm()">
  signup.jsp
     >
        아이디
        <input type="text" name="userid" placeholder="ID">
     >비밀번호
        <input type="password" name="userpw" placeholder="PASSWORD">
     >비밀번호 확인
        <input type="password" name="userpw confirm" placeholder="PASSWORD CONFIRM">
     이름
        <input type="text" name="username">
     <input type="submit" value="등록">
           <input type="reset" value="취소">
        <input type="hidden" name="${ csrf.parameterName}" value="${ csrf.token}" />
</form>
```



♦ 유효성 검사

```
/*유효성 검사 조건
 1. 아이디는 영문자, 숫자 포함 4-12자 이하로 입력해주세요
                                                       validation.js
 2. 비밀번호는 영문자, 숫자, 특수문자 포함 8~12자로 입력해주세요
 3. 비밀번호를 동일하게 입력하세요
 4. 이름을 입력해주세요
function checkForm(){
   let form = document.regForm; //폼 이름
   let id = form.userid.value; //아이디 입력값
   let pwd1 = form.userpw.value; //비밀번호 입력값
   let pwd2 = form.userpw_confirm.value; //비밀번호 확인 입력값
   let name = form.username.value: //이름 입력값
   //정규식 변수 할당
   let regExpId = /^[a-zA-Z0-9]*$/ //영문자, 숫자만(^-시작, *-반복)
   let regExpPwd1 = /[a-zA-Z0-9]/ //영문자, 숫자
   let regExpPwd2 = /[~!@#$%^&*() +/]/ //특수문자
   let regExpPwd3 = /[¬-ㅎ | - | 가-힣]/ //한글
```



◆ 유효성 검사

```
if(id.length < 4 || id.length > 12 || !regExpId.test(id)){
   alert("아이디는 영문자, 숫자 포함 4-12자 이하로 입력해주세요 ");
   form.userid.focus();
   form.userid.select();
   return false;
}else if(pwd1.length < 8 || pwd1.length > 12 ||
       !regExpPwd1.test(pwd1) | !regExpPwd2.test(pwd1) |
       regExpPwd3.test(pwd1)){
   alert("비밀번호는 영문자, 숫자, 특수문자 포함 8-12자 이하로 입력해주세요 ");
   form.userpw.focus();
   form.userpw.select();
   return false:
}else if(pwd1 != pwd2){
   alert("비밀번호를 동일하게 입력해주세요");
   form.userpw confirm.focus();
   form.userpw_confirm.select();
   return false;
}else if(name == ""){
   alert("이름을 입력해주세요");
   form.username.focus();
   return false;
```



Home 나의 정보 (admin님)로그아웃 회원목록 게시판

회원 목록

번호	아이디	이름	가입일
1	cloud	구름이	2022/51/04 02:51:05
2	admin	관리자	2022/51/04 02:51:37

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```
<div id="container">
   <section id="List">
      <div class="title">
         <h2>회원 목록</h2>
      </div>
      memberList.jsp
         <thead>
            번호
               아이디
               이름
               >가입일
            <thead>
         <c:forEach items="${memberList}" var="member" varStatus="status">
            <c:out value="${status.count}" />
               <a href='/member/memberView?userid=<c:out value="${member.userid}"/>'>
                  <c:out value="${member.userid}" /></a>
               <c:out value="${member.username}" /> 
               <fmt:formatDate value="${member.regDate}" pattern="yyyy/mm/dd hh:mm:ss" />
            </c:forEach>
         </section>
```



◆ 관리자 인증(보안)

아이디가 admin인 회원을 관리자로 등급 변경

security-context.xml



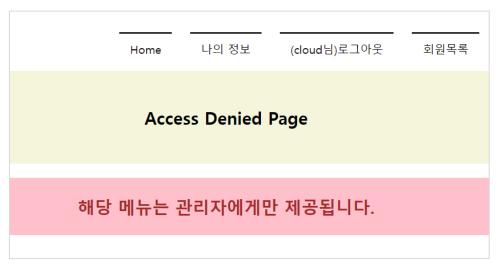
◆ 관리자 인증(보안)

MemberController의 회원 목록 보기 @PreAuthorize("isAuthenticated()")로 인증

```
//회원 목록 보기
@GetMapping("/memberList")
@PreAuthorize("isAuthenticated()")
public String getMemberList(Model model) {
    List<MemberVO> memberList = service.getMemberList();
    model.addAttribute("memberList", memberList);
    return "/member/memberList";
}
```



<권한이 없는 회원이 접근하면 에러 처리>









● 회원 정보

```
<script>
   function checkView(){
       let form = document.viewForm;
       let pwd1 = form.userpw.value;
       let pwd2 = form.userpw confirm.value;
       if(pwd1 != pwd2){
           alert("비밀번호를 동일하게 입력하세요");
           form.userpw_confirm.select();
           return false;
</script>
</head>
<body>
   <jsp:include page="../menu.jsp" />
   <div id="container">
       <div class="title">
           <h1>나의 정보</h1>
       </div>
       <div>
           <form action="/member/update" method="post" name="viewForm"</pre>
                onsubmit="return checkView()">
           >
                  아이디
                  <input type="text" name="userid" value="${member.userid}"
                            readonly="readonLy">
```



```
>
                            <input type="password" name="userpw" value="${member.userpw}">
              memberView.jsp
              <input type="password" name="userpw confirm" value="${member.userpw}">
              이름
                            <input type="text" name="username" value="${member.username}">
              >가입일
                            <fmt:formatDate value="${member.regDate}" pattern="yyyy-MM-dd hh:mm:ss"/>
                            <input type="submit" value="수정">
                                          <a href="/member/delete?userid=${member.userid}"</pre>
                                                    onclick="return confirm('정말로 탈퇴하시겠습니까>')">
                                                     <input type="button" value="

$\forall 1 = \forall 1 = \fora
                                          <a href="/member/memberList"><input type="button" value="목록"></a>
```



● 회원 삭제





● 회원 수정

