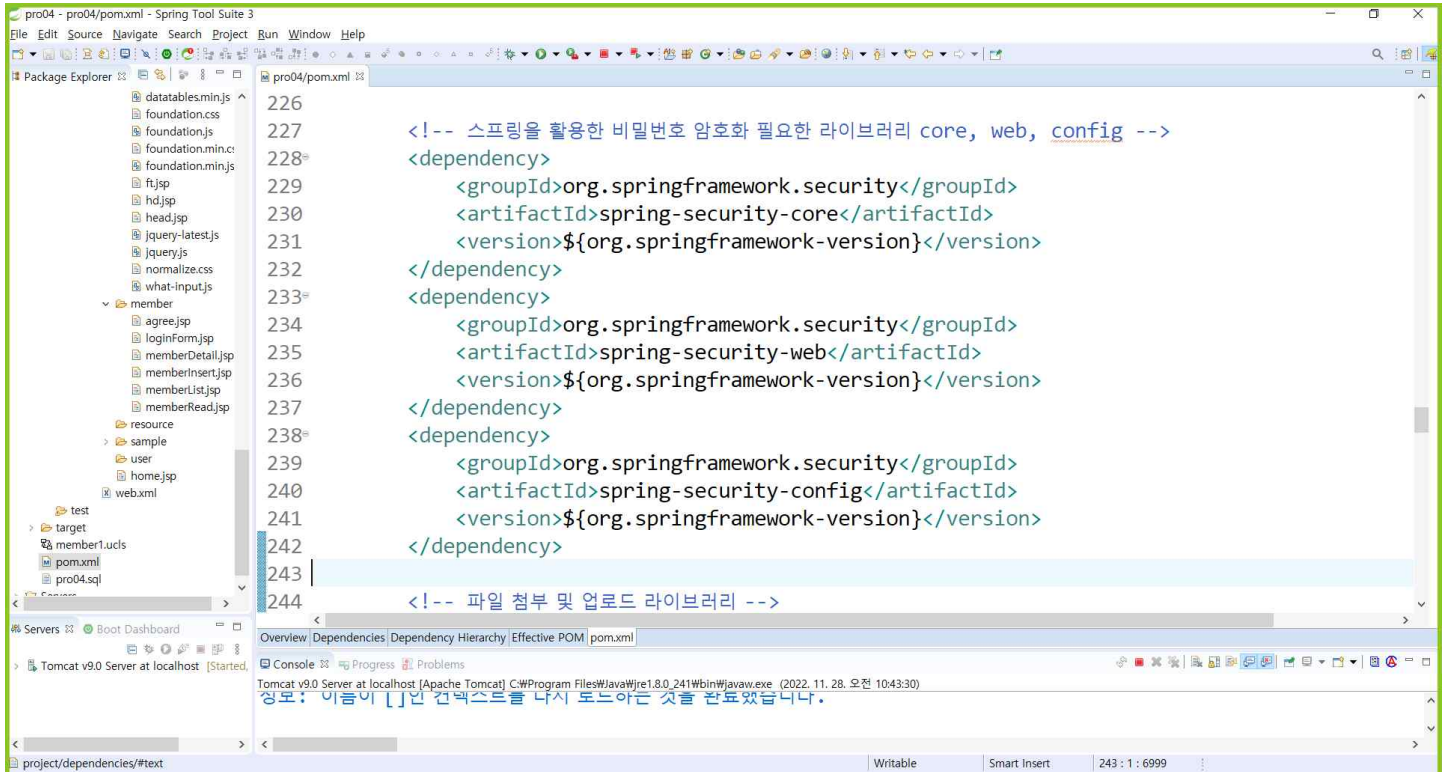
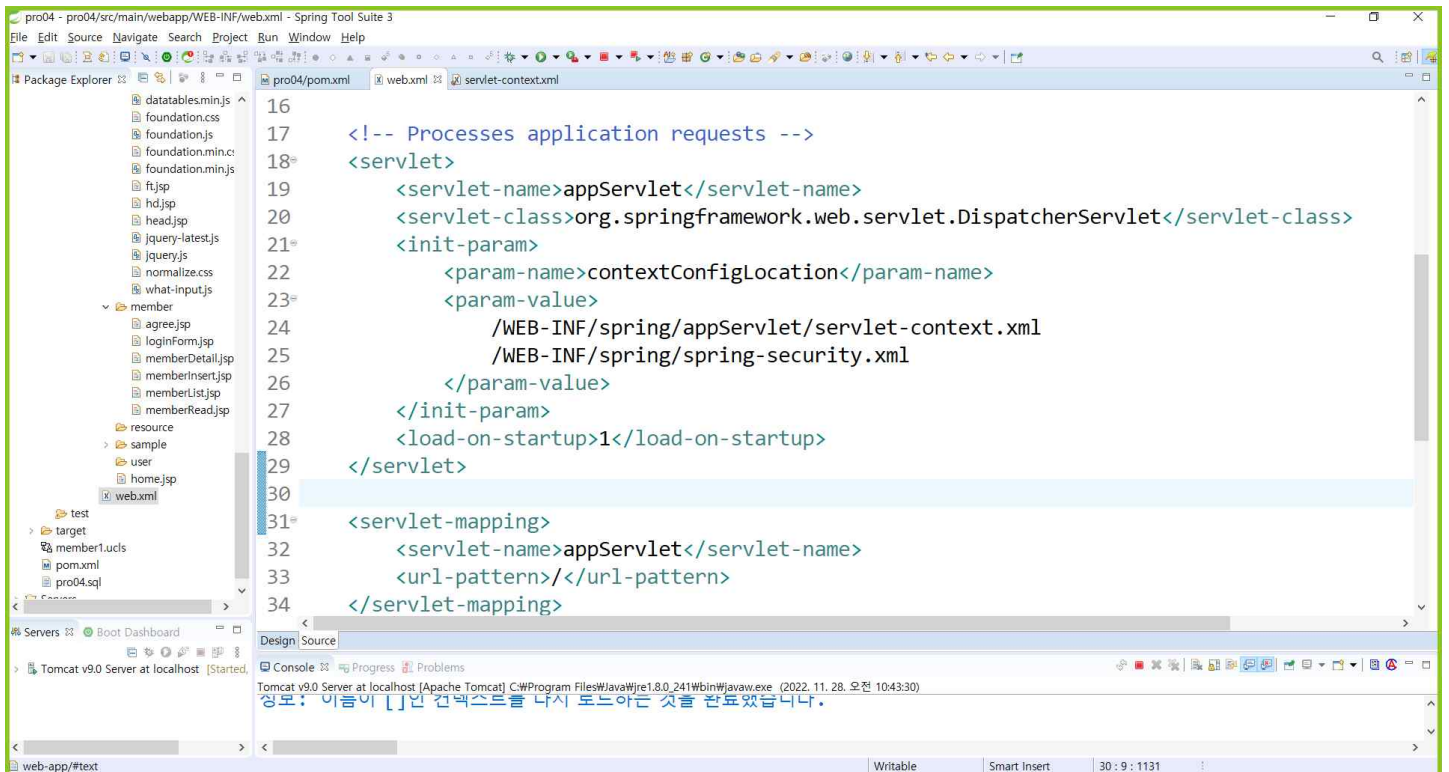


1. pro04/pom.xml에 의존성 라이브러리 추가



2. pro04/src/main/webapp/WEB-INF/web.xml에 xml 및 설정파일 등록



3. pro04/src/main/webapp/WEB-INF/spring/spring-security.xml 파일 작성

```
pro04 - pro04/src/main/webapp/WEB-INF/spring/spring-security.xml - Spring Tool Suite 3
File Edit Source Refactor Navigate Search Project Run Window Help
pro04/pom.xml web.xml servlet-context.xml MemberController.java spring-security.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans:beans xmlns="http://www.springframework.org/schema/security"
3   xmlns:beans="http://www.springframework.org/schema/beans"
4   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
5   xsi:schemaLocation="http://www.springframework.org/schema/beans
6     http://www.springframework.org/schema/beans/spring-beans.xsd
7     http://www.springframework.org/schema/security
8     http://www.springframework.org/schema/security/spring-security.xsd">
9   <!-- 회원가입, 로그인, 비밀번호 -->
10  <beans:bean id="bcryptPasswordEncoder" class="org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder" />
11 </beans:beans>
```

4. pro04/src/main/java/com.cj.controller.MemberController.java 에 BCryptPasswordEncoder 의존성 주입

```
pro04 - pro04/src/main/java/com/cj/controller/MemberController.java - Spring Tool Suite 3
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer pro04/pom.xml web.xml servlet-context.xml MemberController.java spring-security.xml
src/main/java
  com.cj.controller
    BoardController.java
    FreeController.java
    MemberController.java
    SampleController.java
  com.cj.dao
    BoardDAO.java
    BoardDAOImpl.java
    FreeDAO.java
    FreeDAOImpl.java
    MemberDAO.java
    MemberDAOImpl.java
  com.cj.dto
    BoardDTO.java
    FreeDTO.java
    MemberDTO.java
    SampleDTO.java
  com.cj.inject.test
  com.cj.mypapp
    HomeController.java
  com.cj.service
  com.cj.util
    AdminInterceptor.java
    CheckController.java
    LoginCheckInterceptor.java
    Member.java
    MemberValidator.java
    MemberVO.java
29 public class MemberController {
30     private static final Logger logger = LoggerFactory.getLogger(MemberController.class);
31
32     //의존성 주입
33     @Autowired
34     MemberService memberService;
35
36     @Inject
37     BCryptPasswordEncoder pwdEncoder;
38
39     @Autowired
40     HttpSession session;
41
42     //member/list.do -> MemberService -> MemberDAO -> MyBatis(memberMapper) -> DB
43     //localhost:8093/member/list.do
44     @RequestMapping(value="list.do", method = RequestMethod.GET)
45     public String memberList(Model model) throws Exception {
46         List<MemberDTO> memberList = memberService.memberList();
47         model.addAttribute("memberList", memberList);
48         return "member/memberList";
49     }
50 }
```

5. pro04/src/main/java/com.cj.controller.MemberController.java 에 회원 가입시 비밀번호 암호화

```
pro04 - pro04/src/main/java/com/cj/controller/MemberController.java - Spring Tool Suite 3
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer pro04/pom.xml web.xml servlet-context.xml MemberController.java spring-security.xml
src/main/java
  com.cj.controller
    BoardController.java
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    SampleController.java
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    BoardDAO.java
    BoardDAOImpl.java
    FreeDAO.java
    FreeDAOImpl.java
    MemberDAO.java
    MemberDAOImpl.java
  com.cj.dto
    BoardDTO.java
    FreeDTO.java
    MemberDTO.java
    SampleDTO.java
  com.cj.inject.test
  com.cj.mypapp
    HomeController.java
  com.cj.service
  com.cj.util
    AdminInterceptor.java
    CheckController.java
    LoginCheckInterceptor.java
    Member.java
    MemberValidator.java
    MemberVO.java
95     out.println(json.toString());
96 }
97 //회원 가입 - 회원 가입 처리
98 @RequestMapping(value="insert.do", method = RequestMethod.POST)
99 public String memberWrite(MemberDTO member, Model model) throws Exception {
100     //비밀번호 암호화
101     String userpw = member.getPw();
102     String pwd = pwdEncoder.encode(userpw);
103     member.setPw(pwd);
104     memberService.memberInsert(member);
105     return "redirect:/";
106 }
107
108 //로그인 폼 로딩
109 @RequestMapping("loginForm.do")
110 public String memberLoginForm(Model model) throws Exception {
111     return "member/loginForm";
112 }
113 }
```

6. pro04/src/main/java/com.cj.controller.MemberController.java 에 로그인 시 입력한 비밀번호와 가입시에 저장되었던 비밀번호 비교

```
113 //로그인 - 컨트롤러에서 세션 처리
114 @RequestMapping(value="signin.do", method = RequestMethod.POST)
115 public String memberSignin(@RequestParam String id, @RequestParam String pw, HttpServletRequest
116 session.invalidate());
117 MemberDTO mdto = new MemberDTO();
118 mdto.setPw(pw);
119 mdto.setId(id);
120 MemberDTO login = memberService.signIn(mdto);
121 boolean loginSuccess = pwdEncoder.matches(mdto.getPw(), login.getPw());
122 if(loginSuccess && login!=null) {
123 session.setAttribute("member", login);
124 session.setAttribute("sid", id);
125 return "redirect:/";
126 } else {
127 return "redirect:loginForm.do";
128 }
129 }
130 }
131 }
```