SPRING-BOOT 와 JPA를 활용한 쇼핑몰 구현

Version

JDK: 11

spring-boot: 2.3.7 RELEASE

build tool: Gradle

IDE : intelliJ Ultimate

DBMS: H2 1.4.200

Test: JUnit4

JDK 11 설치

다운로드: https://www.oracle.com/java/technologies/javase-jdk11-downloads.html

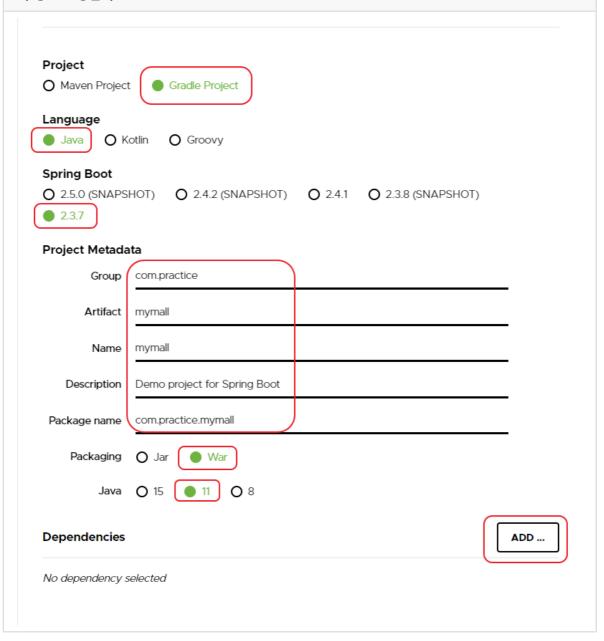
IntelliJ 설치

다운로드: https://www.jetbrains.com/ko-kr/idea/download/

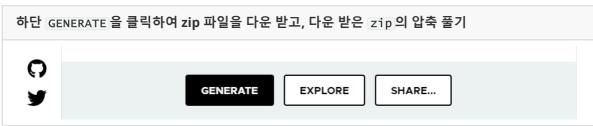
프로젝트 생성하기

다운로드: https://start.spring.io/

다음과 같이 선택한다. Group과 Artifact ID는 자유롭게 기술하되 GroupId는 모두 소문자, 패키지 경로로 정한다.



그다음 Dependency를 ADD 한다. 이 프로젝트에 적용할 서드파티 의존성 라이브러리를 넣을 것이 다. web, thymeleaf, jpa, h2, lombok, validation Dependencies ADD ... Validation 1/0 JSR-303 validation with Hibernate validator. Spring Web WEB Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container. Spring Data JPA sol Persist data in SQL stores with Java Persistence API using Spring Data and Hibernate. H2 Database sol Provides a fast in-memory database that supports JDBC API and R2DBC access, with a small (2mb) footprint. Supports embedded and server modes as well as a browser based console application. Lombok DEVELOPER TOOLS Java annotation library which helps to reduce boilerplate code. Thymeleaf TEMPLATE ENGINES A modern server-side Java template engine for both web and standalone environments. Allows HTML to be correctly displayed in browsers and as static prototypes.



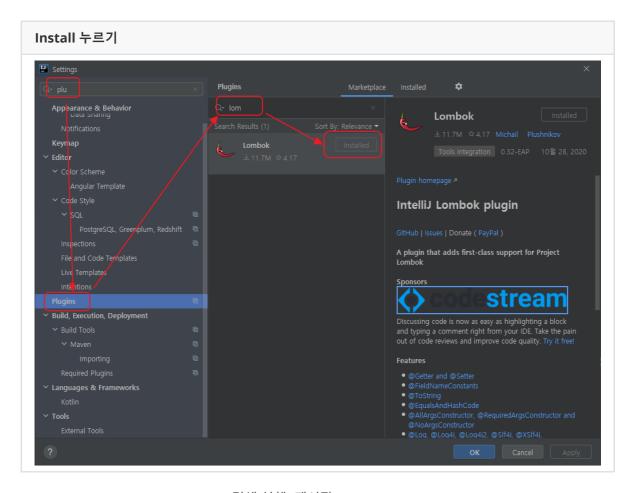
IntelliJ 에서 Open > Project ₩ Welcome to IntelliJ IDEA New Project IntelliJ IDEA U Open File or Project ★ □ □ □ □ □ □ × □ □ #guidebook_by_sera-spring-boot₩spring-boot-web-1₩mymall₩mymall ▼ > **u** guidebook_by_sera-android-kotlin ✓ ■ guidebook_by_sera-spring-boot > 📭 jpashop ✓ ■ spring-boot-web-1 ✓ Image: mymall and mymall a 🗡 📭 mymall > 🖿 gradle > src 🕷 .gitignore ■ gradlew gradlew.bat # HELP.md d ch01 loC (Inversion of Control).md ach02 Auto Configure.md

1. build.gradle 설정

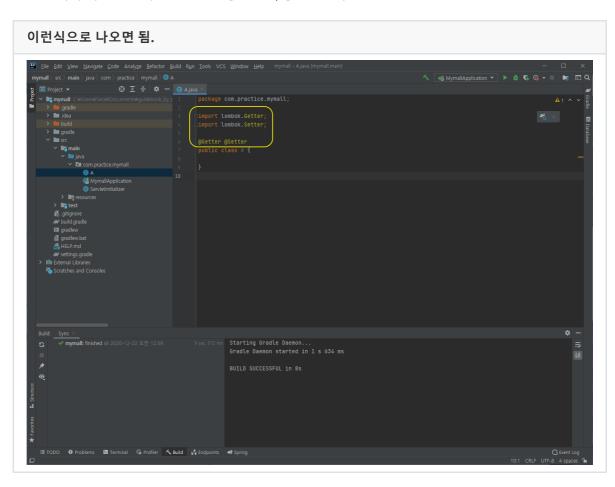
build.gradle 에 다음과 같이 작성한다. 기본적으로 이렇게 설정되어있을 것이다.

```
plugins {
    id 'org.springframework.boot' version '2.3.7.RELEASE'
    id 'io.spring.dependency-management' version '1.0.10.RELEASE'
    id 'war'
}
group = 'com.practice'
version = '0.0.1-SNAPSHOT'
sourceCompatibility = '11'
configurations {
    compileOnly {
        extendsFrom annotationProcessor
    }
}
repositories {
    mavenCentral()
}
dependencies {
    implementation 'org.springframework.boot:spring-boot-starter-data-jpa'
    implementation 'org.springframework.boot:spring-boot-starter-thymeleaf'
    implementation 'org.springframework.boot:spring-boot-starter-validation'
    implementation 'org.springframework.boot:spring-boot-starter-web'
    compileOnly 'org.projectlombok:lombok'
    runtimeOnly 'com.h2database:h2'
    annotationProcessor 'org.projectlombok:lombok'
    providedRuntime 'org.springframework.boot:spring-boot-starter-tomcat'
    testImplementation('org.springframework.boot:spring-boot-starter-test') {
        exclude group: 'org.junit.vintage', module: 'junit-vintage-engine'
    }
}
test {
    useJUnitPlatform()
}
```

2. Lombok 플러그인 설치



- 1. Prefrences > plugin > lombok 검색 실행 (재시작)
- 2. Prefrences > Annotation Processors 검색 Enable annotation processing 체크 (재시작)
- 3. 임의의 테스트 클래스를 만들고 @Getter, @Setter 확인



3. IntelliJ Runtime 변경

4. 실행해보기 (최종)

