Spring boot

차례

# 1. Spring Boot 개요 및 환경설정 : Spring Boot
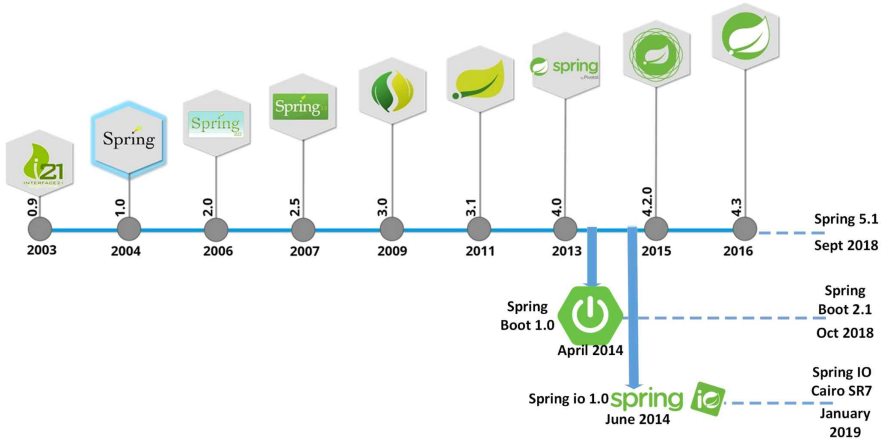
1. Spring Boot 개요 및 환경설정 : Spring Boot 란?

- Spring Boot is a lightweight and open-source Java-based framework that is used for creating stand-alone and production-grade Spring-based applications. Initially released in 2002, Spring Boot leverages the Spring platform and third-party libraries to enable the developers to get started with minimum hassle. A few advantages offered by the Spring Boot framework are:

  - Helps avoid complex XML configuration in Spring
  - Microservices-ready framework
  - Provides powerful batch processing
  - Helps manage REST endpoints
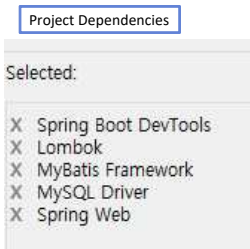 - Eases dependency management

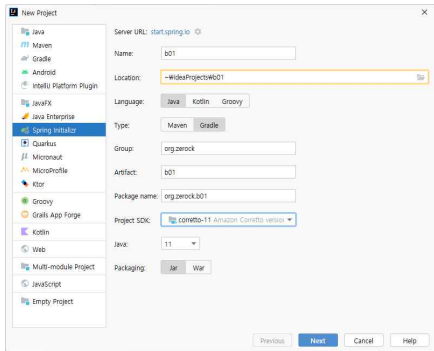https://spring.io/projects/spring-boot

1. Spring Boot 개요 및 환경설정 : SPRING BOOT 동작
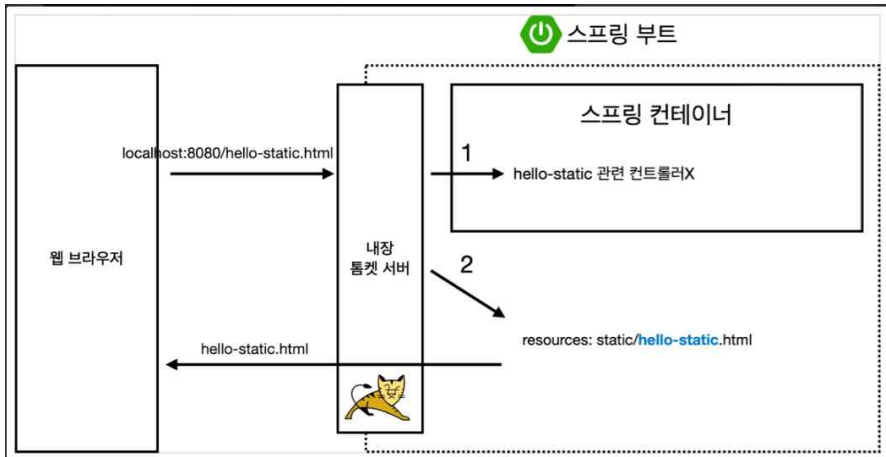
2. Spring Boot Mybatis

- **프로젝트 생성**
- **[file]-> [새로만들기] -> [Project] -[Spring Initializr] 선택 한 후 Project Dependencies 를 아래와 같이 선택**

Project Dependencies

Selected:

X Spring Boot DevTools
X Lombok
X MyBatis Framework
X MySQL Driver
X Spring Web

2. Spring Boot Mybatis

- **Jsp 파일 사용 설정: pom.xml 아래 내용 추가 후 src/main/webapp에 WEB-INF/views 폴더 생성**

```xml
<!-- https://mvnrepository.com/artifact/org.apache.tomcat.embed/tomcat-embed-jasper -->
<dependency>
    <groupId>org.apache.tomcat.embed</groupId>
    <artifactId>tomcat-embed-jasper</artifactId>
</dependency>

<!-- https://mvnrepository.com/artifact/jakarta.servlet.jsp.jstl/jakarta.servlet. -->
    <dependency>
      <groupId>jakarta.servlet.jsp.jstl</groupId>
      <artifactId>jakarta.servlet.jsp.jstl-api</artifactId>
      <version>3.0.0</version>
    </dependency>

    <!-- https://mvnrepository.com/artifact/org.glassfish.web/jakarta.servlet.jsp.jstl -->
    <dependency>
      <groupId>org.glassfish.web</groupId>
      <artifactId>jakarta.servlet.jsp.jstl</artifactId>
      <version>3.0.1</version>
    </dependency>
```
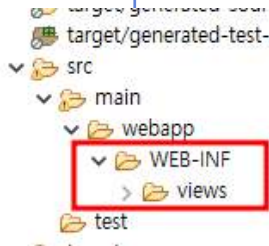
2. Spring Boot Mybatis

— application.properties 작성

Application.properties

```
server.port=8089

#database
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/spring_db?useSSL=false&serverTimezone=Asia/Seoul&characterEncoding=UTF-8
spring.datasource.username=pgm
spring.datasource.password=1234

#xml location
mybatis.mapper-locations=classpath:mappers/*.xml

#vo.location
mybatis.type-aliases-package=com.example.demo.vo

#view setting
spring.mvc.view.prefix=/WEB-INF/views/
spring.mvc.view.suffix=.jsp
```
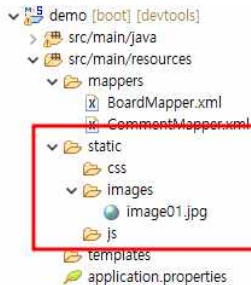
2. Spring Boot Mybatis

- **Mapper, Service, Controller, jsp View 스프링 프레임워크와 동일**
- **Static 소스 작성 위치 및 활용예**


```
v demo [boot] [devtools]
  > src/main/java
  v src/main/resources
    v mappers
        BoardMapper.xml
        CommentMapper.xml
    v static
        css
      v images
          image01.jpg
        js
      templates
      application.properties
```

`<img src="images/image01.jpg">`

mybatis와 jsp 활용 프로젝트 작성

- **데이터베이스 : springbootdb**
- **테이블 : tbl_baord**
- **MCV 패턴 작성 : mapper, dto, service, controller**
- **구현내용: list, register, view, update, delete**