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# Spring MVC

소개 및 환경구성

# Spring MVC

Java용 오픈소스 프레임워크 (2003.06 release)

J2EE 경량 대체제로 큰 인기를 누렸음

- POJO
- AOP
- Data access framework

설정보다 관습

- Spring Boot

# 구현내용 및 개발환경 구성

## 구현내용

### 자료구조

```
Article
{
  ** id : 12345
  title : "제목"
  body: "특별한 내용 없습니다."
  authorId : 967782
  createdAt : 2023-07-12T12:23:56
  updatedAt : 2023-07-12T12:23:56
}
```

### API

기능	METHOD	URI
등록	post	/article
수정	put	/article/{id}
삭제	delete	/article/{id}
<u>단건</u> 조회	get	/article/{id}
목록 조회	get	/article/all

# 구현내용 및 개발환경 구성

## Spring initializr

- <https://start.spring.io>

• [https://start.spring.io/#type=gradle-project&language=kotlin&platformVersion=3.1.1&packaging=jar&jvmVersion=17&groupId=dev.fastcampus&artifactId=mvc&name=mvc&description=spring\\_boot\\_mvc&packageName=dev.fastcampus.mvc&dependencies=web,data-jpa,h2](https://start.spring.io/#type=gradle-project&language=kotlin&platformVersion=3.1.1&packaging=jar&jvmVersion=17&groupId=dev.fastcampus&artifactId=mvc&name=mvc&description=spring_boot_mvc&packageName=dev.fastcampus.mvc&dependencies=web,data-jpa,h2)



**Project**

☐ Gradle - Groovy ☒ Gradle - Kotlin ☐ Java ☒ Kotlin ☐ Groovy

☐ Maven

**Spring Boot**

☐ 3.2.0 (SNAPSHOT) ☐ 3.1.2 (SNAPSHOT) ☒ 3.1.1 ☐ 3.0.9 (SNAPSHOT)

☐ 3.0.8 ☐ 2.7.14 (SNAPSHOT) ☐ 2.7.13

**Project Metadata**

Group

Artifact

Name

Description

Package name

Packaging ☒ Jar ☐ War

Java ☐ 20 ☒ 17 ☐ 11 ☐ 8

**Dependencies** ADD DEPENDENCIES... CTRL + B

**Spring Web** WEB +

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

**Spring Data JPA** SQL +

Persist data in SQL stores with Java Persistence API using Spring Data and Hibernate.

**H2 Database** SQL +

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.

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# Spring MVC

서비스 구현

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# 구현 실습

Hello world API 구현

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# 구현 실습

CRUD 서비스 구현

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# 구현 실습

Unit 테스트 (JUnit)