

Spring

What is Spring ?

→ Spring is ~~open source~~ java based framework to build enterprise Java applications

→ Spring simplifies the development process of java applications.

→ Spring framework is collection of frameworks such as Spring MVC, Spring ORM etc.

→ Spring supports other frameworks like Hibernate.

What are the features of Spring Framework?

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enka epudu asevi main.
★ imp

→ IOC container
(Inversion of Control)

→ It is responsible for managing Java objects.
ex: Object creation, deletion etc.

→ It manages the overall lifecycle of Object

----- 2nd feature -----

→ Spring support MVC ~~framework~~ pattern
Model, View & Controller
for developing web applications.

→ Spring has dependency injection feature.

that is we don't have to create objects, we have to tell Spring how to create it

→ Spring has modules like Spring JDBC, MVC, Security, ORM, Test etc.

Maven (Build Tool)

→ Maven is a management tool

→ It is used for building and managing Java-based project.

POM (Project Object Model)

pom.xml

→ It is a XML file

→ contains dependencies, ~~and~~ versions of the project.

Postman Tool.

→ Postman is application for API testing.

→ It is used to test HTTP requests.

Methods definition

GET → To obtain information

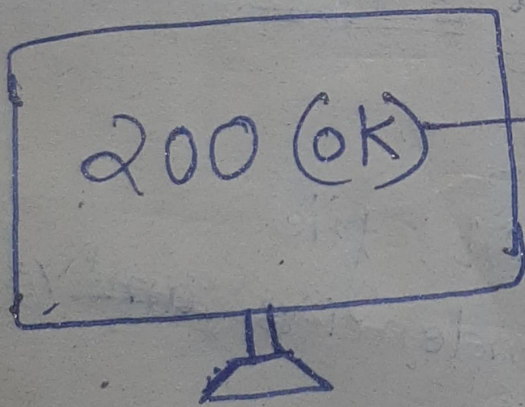
POST → To add information

PUT → To Replace information

PATCH → To Update certain information

DELETE → To delete information.

Status Codes



successful

→ status ok

3

| 100 → processing

400 → Bad request

500 → Internal server error

Dependency Injection

In dependency injection we don't have to create objects, we have to tell how it should be created.

→ IOC container will wire the ~~objects~~ components and services together.

→ 2 types

→ Constructor Injection

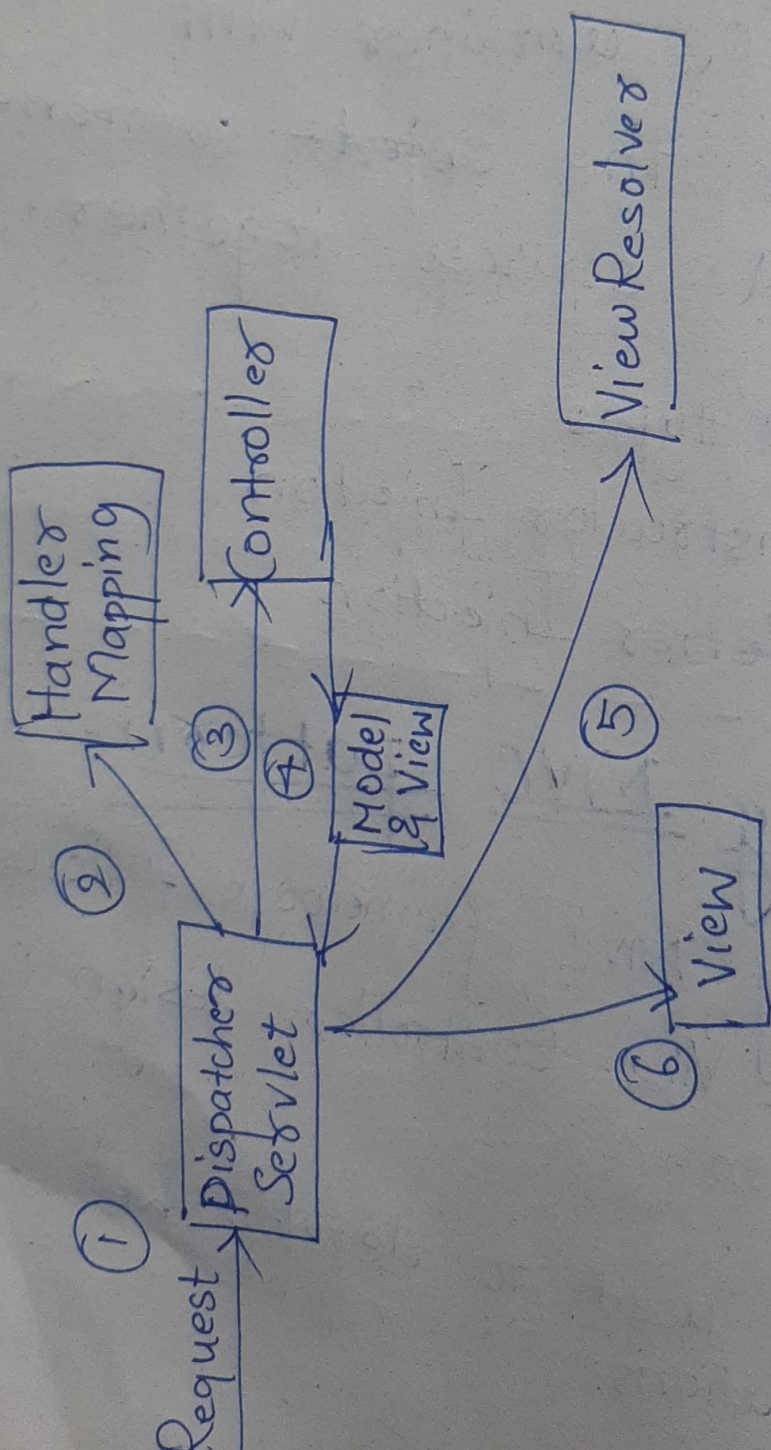
→ Setter Injection

Spring MVC pattern

Spring MVC framework follows Model-View-Controller design pattern.

It is used to develop web applications.

→ DispatcherServlet handles all HTTP requests and responses.



→ Spring MVC framework advantages:

- Easy to update the application.
- Development becomes faster
- Reusable code.