

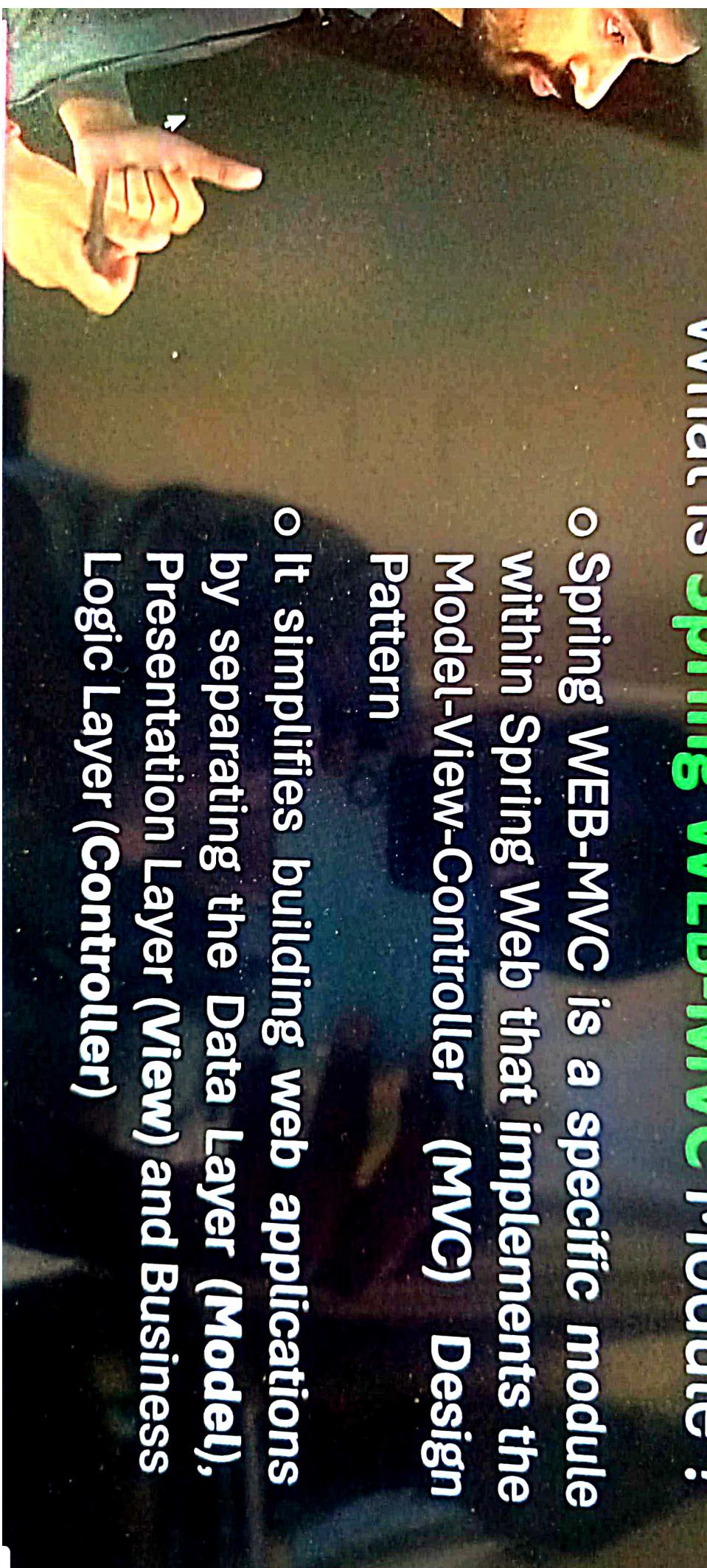
What is Spring WEB Module?

- Spring Web module is the part of Spring Framework that provides the foundation for creating web applications.

- It offers features like handling HTTP requests and responses, integrating with various web technologies, managing sessions etc

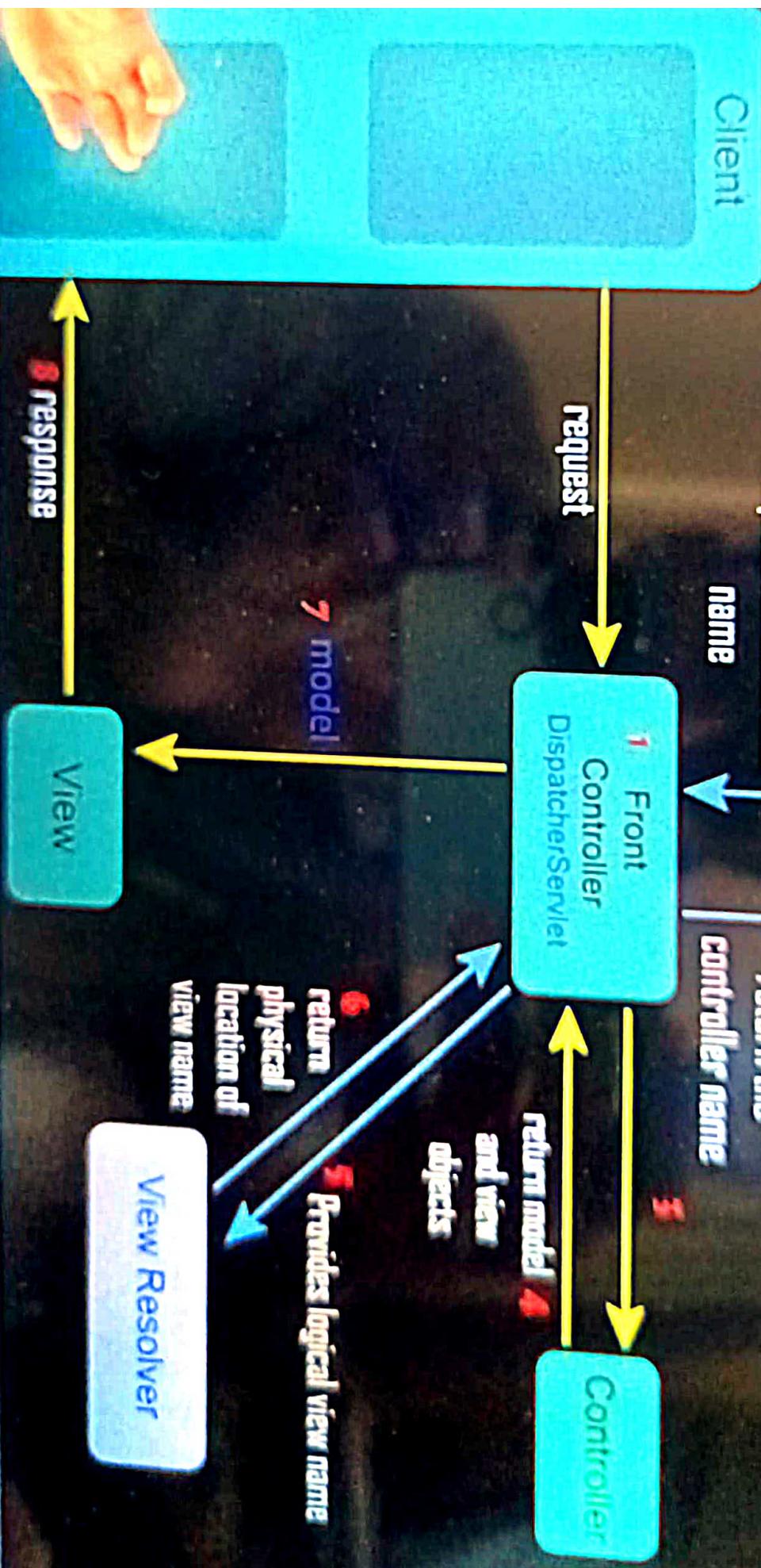
What is **Spring WEB-MVC** Module ?

- **Spring WEB-MVC** is a specific module within Spring Web that implements the Model-View-Controller (MVC) Design Pattern
- It simplifies building web applications by separating the Data Layer (**Model**), Presentation Layer (**View**) and Business Logic Layer (**Controller**)

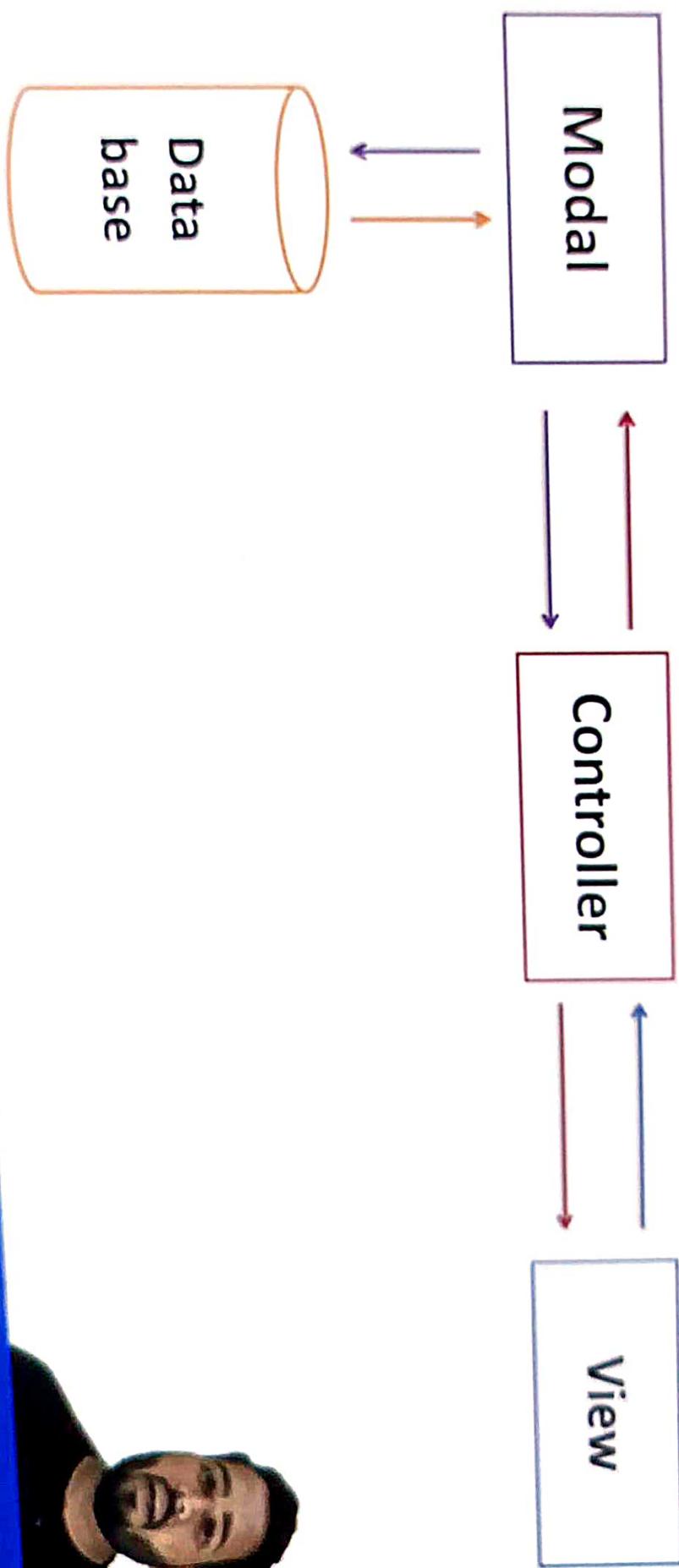


MVC Tutorial || Deep Architecture & Working of Spring MVC [Hindi]

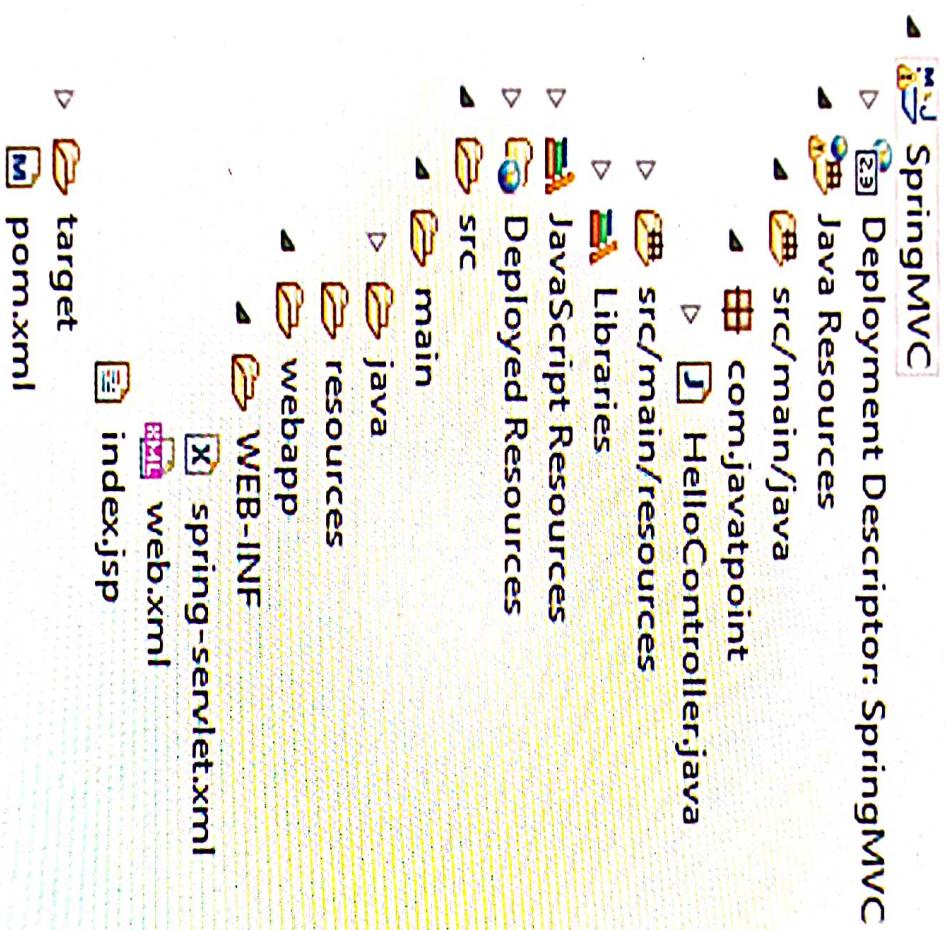
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Working of MVC



Directory Structure of Spring MVC using Maven



#2 Understanding Spring Boot Starters || Important Spring Boot Interview Question ||...

What are Spring Boot Starters

Spring boot
Web App

- web.jar
- web-mvc.jar
- validation.jar
- tomcat.jar
- logback.jar
- ...

Spring Boot Starters are the "Dependency Descriptors"

Dependency

External libraries or JARs

Descriptor

Configuration specifying JARs and their versions

- Spring Boot Starters combine all the necessary libraries (JAR files) for a particular feature or technology into a single dependency

What are Spring Boot Starters

- For example, “spring-boot-starter-web” dependency will provide all the web features in our application

```
<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
        <version>3.2.0</version>
    </dependency>
    ....
</dependencies>
```

- Spring Boot starters follows the naming pattern i.e. spring-boot-starter-*

sts workspace youtube - SpringBootProject1/pom.xml - Spring Tool Suite 4

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Package Explorer X SpringBootProject1 [boot]

src/main/java
src/main/resources
src/test/java
JRE System Library [JavaSE-17]
 Maven Dependencies
 src
 target
 HxD.md
 maven
 pom.xml

14 <version>1.0</version>
15 <name>SpringBootProject1</name>
16 <description>Demo project for Spring Boot</description>
17 <properties>
18 <java.version>17</java.version>
19 </properties>

20 <dependencies> Add Spring Boot Starters...
21
22 <dependency>
23 <groupId>org.springframework.boot</groupId>
24 <artifactId>spring-boot-starter-web</artifactId>
25 </dependency>
26
27 <dependency>
28 <groupId>org.springframework.boot</groupId>
29 <artifactId>spring-boot-starter-test</artifactId>
30 <scope>test</scope>
31 </dependency>
32
33 </dependencies>
34
35 <build>
36 <plugins>

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

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#2 Understanding Spring Boot

```
18 <ja
19 </prope
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```

#2 Understanding Spring Boot Starters || Important Spring Boot Interview Questions

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① Simplifies Configuration

Starters automatically include the right libraries and settings we need, so that we can write code faster.

② Boost Productivity

Saves time and effort by providing sensible defaults and configurations, allowing developers to focus on writing business logic rather than managing dependencies.

③ Simplifies Configuration

Ensures that all included dependencies are compatible with each other and the Spring Boot version being used, reducing the risk of conflicts.

Its' "Ensures Compatatability",
Not Simplifies Configuration



#2 Understanding Spring Boot Starters || Important Spring Boot Interview Question ||...

Some Important Spring Boot Starters are

1st ✓ **spring-boot-starter**

It is the core starter that includes auto-configuration support, logging, And YAML processing.

2nd ✓ **spring-boot-starter-web**

It provide dependencies to build web applications, including Spring MVC, RESTful services, and embedded Tomcat.

3rd ✓ **spring-boot-starter-data-jpa**

It provide dependencies for Spring Data JPA, Hibernate and database connection pool.

4th ✓ **spring-boot-starter-security**

It includes Spring Security and its dependencies for securing applications.

Some Important **Spring Boot Starters** are

5th **spring-boot-starter-thymeleaf**

It integrates the Thymeleaf templating engine with Spring MVC.

6th **spring-boot-starter-test**

It includes testing libraries like JUnit, Hamcrest, and Mockito.

7th **spring-boot-starter-actuator**

It provides production-ready features to help monitor and manage your application, including health checks and metrics.

8th **spring-boot-starter-aop**

It brings in support for aspect-oriented programming using Spring AOP and AspectJ.