

# Configuring a Spring MVC Application with Spring Boot

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# Overview



**Configure Spring MVC application**

**MVC design pattern**

**Useful annotations**

**Deploy application to Tomcat**



```
<dependency>
```

```
<groupId>org.springframework.boot</groupId>
```

```
<artifactId>spring-boot-starter-web</artifactId>
```

```
</dependency>
```

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## Spring MVC Dependency

**Dispatcher servlet, error page, servlet container, jars**

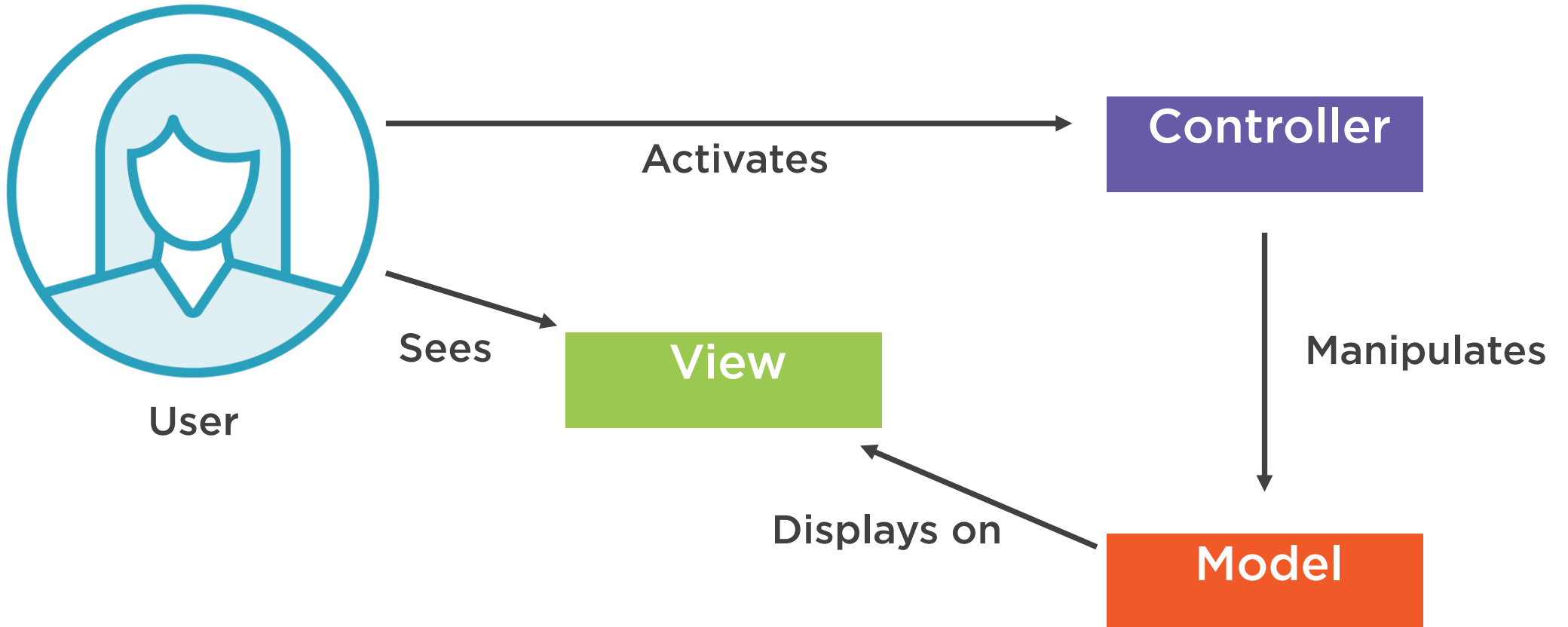


# MVC Design Pattern

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# MVC Design Pattern



# MVC



## Model

Representation of  
data in a system



## View

Responsible for  
displaying data

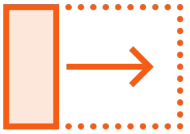


## Controller

Directing incoming  
user requests



# ThymeLeaf



Fragments



Repeatable chunks of code



Components reused across pages



# Demo



## Model View Controller (MVC) in TrackZilla



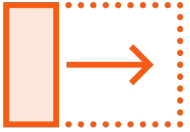


# Spring Boot Packaging and Deployment

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# Packaging and Deployment



Packaged as traditional web application in a .war file



Trackzilla is a standalone application



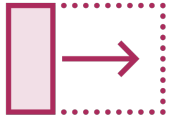
Packaged in an executable JAR file with a main method

# Spring

```
<build>
  <plugins>
    <plugin>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-maven-plugin</artifactId>
    </plugin>
  </plugins>
</build>
```



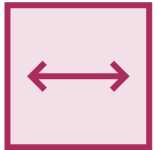
# Spring Boot Maven Plugin



Repackages your .jar and .war files to be executable



Runs Spring Boot application



Provides built-in dependency resolver



Manages lifecycle of Spring Boot application



# Demo



## Application Layers

- TzaController
- Model
- Service
- Repository
- View



# Summary



**Configure Spring MVC application**

**Overview of MVC design pattern**

**Useful annotations**

**Automatic configuration**

**Deploy application to Tomcat**

