

## 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>
```

---

## Spring MVC Dependency

Dispatcher servlet, error page, servlet container, jars

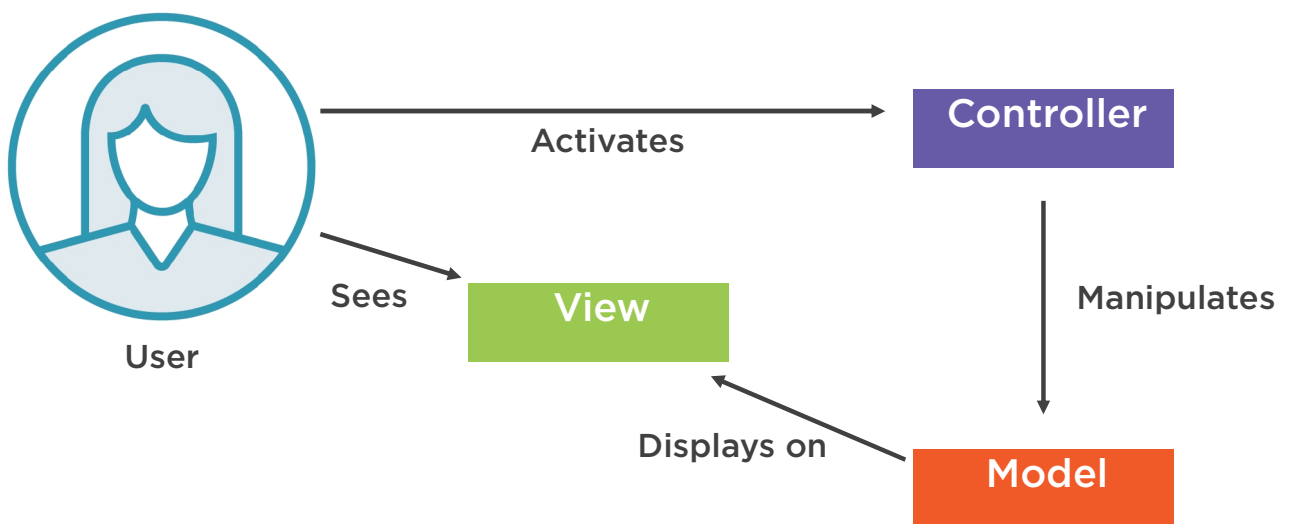


# MVC Design Pattern

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## MVC Design Pattern



# MVC



## Model

Representation of data in a system



## View

Responsible for displaying data

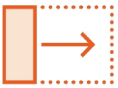


## Controller

Directing incoming user requests



# ThymeLeaf



**Fragments**



**Repeatable chunks of code**



**Components reused across pages**



Demo



## Model View Controller (MVC) in TrackZilla



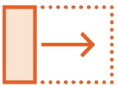
# Spring Boot Packaging and Deployment

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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**

