#### Overview



#### **Features of Spring Boot**

- Spring Boot starters
- Auto configuration

#### **Bootstrapping an application**

- Spring Initializr

**Data access** 

**Spring MVC** 

**REST API development** 

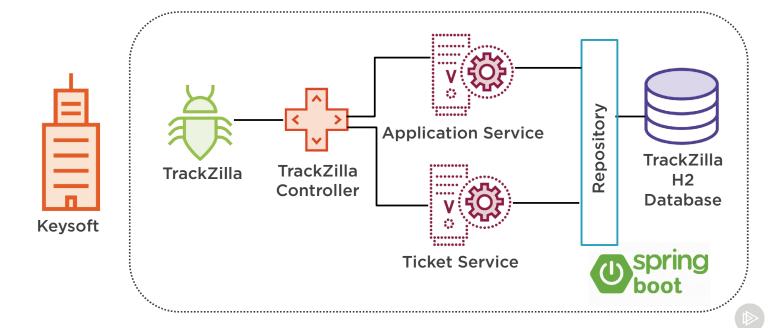
**GraphQL** servers

**Spring Boot Actuator** 

**Testing** 



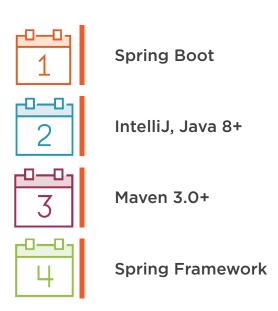
# TrackZilla Case Study



Learning Path



## Starting Point





#### Pluralsight Library

**Spring Fundamentals** 

**Spring: The Big Picture** 

Creating Your First Spring
Boot Application

Getting Started with Spring
Data JPA



# Prerequisites











Spring Boot Overview



## Spring

# Spring Boot Spring MVC Spring Data Spring Security Spring Session Spring AMQP Spring Batch

XML config files

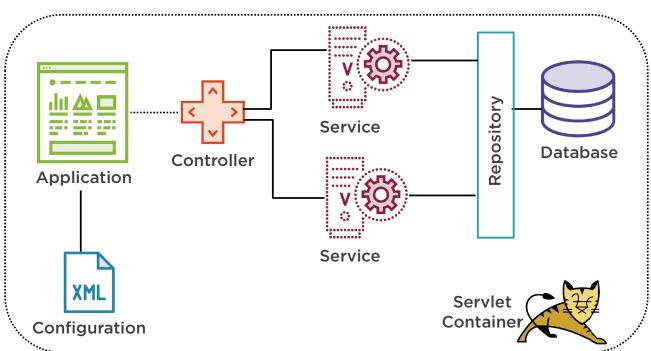
Configuration needed

Annotation based

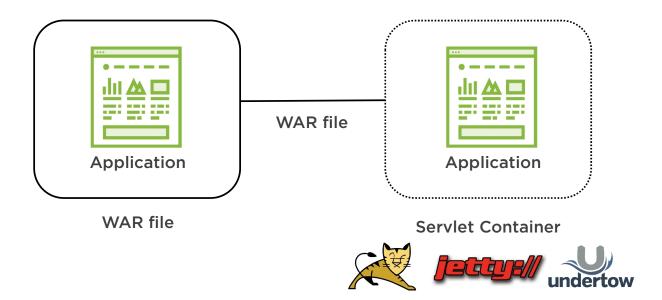
Configuration Challenges



#### Structure



## Simple Deployment





Features of Spring Boot



#### Features



Automatic configuration



Starter dependencies



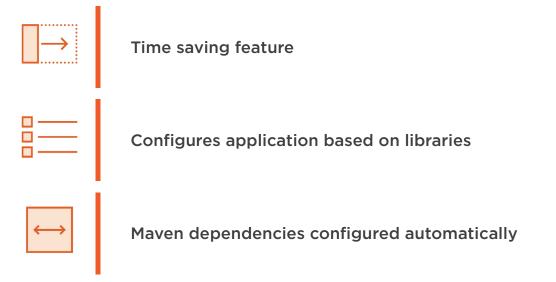
**Command line interface** 



Actuator



#### Automatic Configuration





#### Starter Dependency

spring-boot-starter-web

spring-boot-starter-test

spring-boot-starter-data-jpa

spring-boot-starter-thymeleaf



#### Spring



#### Spring Boot

```
<dependency>
    <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
        <version>2.1.5.RELEASE</version>
</dependency>
```



```
<dependency>
<groupId>
org.springframework.boot
</groupId>
<artifactId>
spring-boot-starter-test
</artifactId>
<scope>
test
</dependency>
```

- **◄** Includes testing libraries
- **■** JUnit
- Mockito
- **◄** Hamcrest
- **◄** Spring core
- Spring test



```
<dependency>
<groupId>
org.springframework.boot
</groupId>
<artifactId>
spring-boot-starter-data-jpa
</artifactId>
</dependency>
```

- **◄** Spring Data JPA with Hibernate
- **■** JDBC
- **◄** Entity manager
- **◄** Transaction API
- **◆** Spring DATA JPA
- Aspects

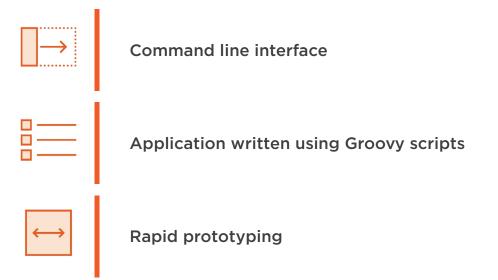


```
<dependency>
<groupId>
org.springframework.boot
</groupId>
<artifactId>
spring-boot-starter-web
</artifactId>
</dependency>
```

- Web application development
- **◄** Spring MVC
- **◄** REST
- **◆** Tomcat
- Jackson

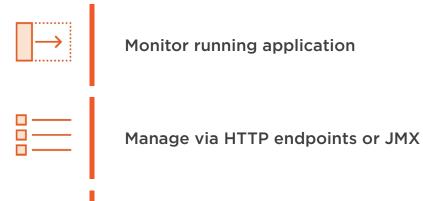


#### Spring Boot CLI





#### Actuator







https://gitlab.com/videolearning/spring-fundamentals

GitHub Repository

Use the link to clone code locally



## Summary



#### What we covered:

- Spring Boot
- Extension of Spring Framework

**Automatic configuration** 

**Starter dependencies** 

CLI

Actuator

