

Introduction to Spring Boot

- 1. Overview of Spring Boot
- 2. Tooling up

Section 1. Overview of Spring Boot

- What is Spring Boot?
- Getting Spring Boot
- Spring Boot documentation
- What can you do with Spring Boot?
- Spring Boot in the enterprise



What is Spring Boot?

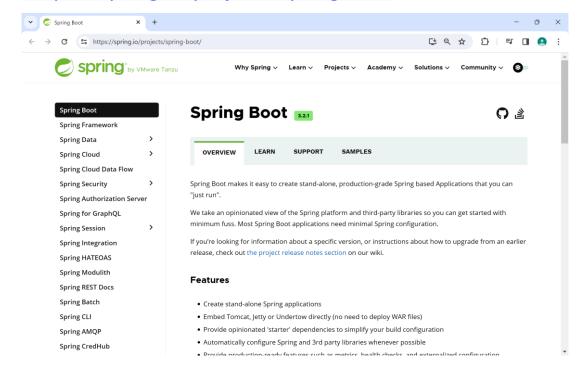
- Spring Boot is a popular Java-based framework from Pivotal
 - Simplifies creating and running enterprise applications
- Allows you to create completely standalone applications
 - Applications can contain built-in servers, e.g. Tomcat or Jetty
 - No need for an external web server host to run on
 - You can just run a Spring Boot application as a regular Java app

java -jar MySpringBootApp.jar



Getting Spring Boot

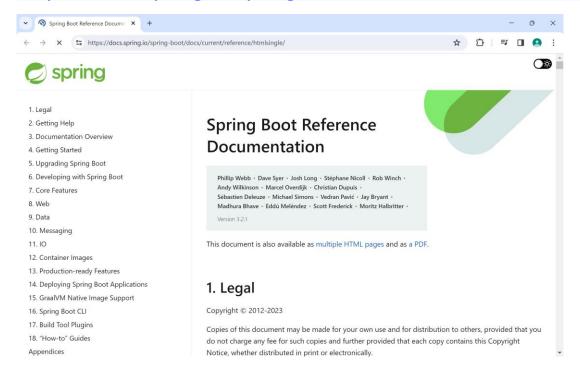
- You can get the Spring Boot project here:
 - https://spring.io/projects/spring-boot





Spring Boot Documentation

- Extensive Spring Boot documentation is available here:
 - https://docs.spring.io/spring-boot/docs/current/reference/htmlsingle/



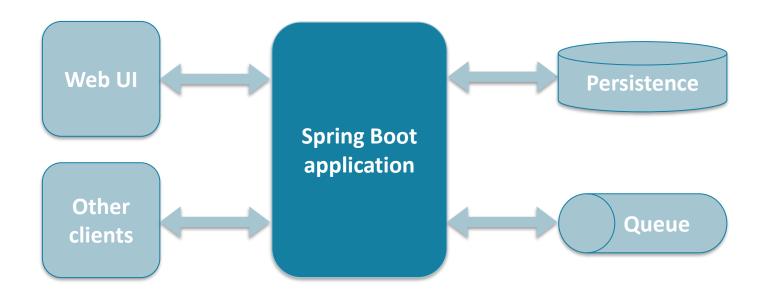


What Can You Do With Spring Boot?

- Spring Boot has extensive APIs that address all aspects of contemporary systems
 - REST services and Web applications
 - SQL and NoSQL data sources
 - Messaging, e.g. with Kafka
 - Spring Batch
 - Spring Cloud
 - Web sockets
 - Plus testing, security, logging, etc.



Spring Boot in the Enterprise





Section 2: Tooling Up

- Overview
- Setting up the Java Development Kit (JDK)
- Setting up IntelliJ IDEA Ultimate Edition



Overview

- We're going to use the following tools:
 - Java Standard Edition Development Kit (JDK) version 21
 - IntelliJ IDEA Ultimate Edition

Let's see how to set up these tools...



Setting up the Java Development Kit

- You can install the Oracle JDK, which is available here:
 - https://www.oracle.com/java/technologies/downloads/#java21

- Alternatively, you can install OpenJDK, which is available here:
 - https://openjdk.java.net/install/

- You must also set two environment variables:
 - JAVA_HOME must point to your JDK folder
 - PATH must include your JDK binary folder



Setting up IntelliJ IDEA Ultimate Edition

- You can install IntelliJ IDEA Ultimate Edition from here:
 - https://www.jetbrains.com/idea/

- Make sure you install the Ultimate Edition
 - You can install a free 30-day trial if you like
- We'll use IntelliJ IDEA to create and run Spring Boot apps





- Overview of Spring Boot
- Tooling up

