

Pre-requisites:

OOP, classes, interfaces, exception handling,
collection framework, inheritance

SpringBoot

Why?

Purpose: To build java application

Must installed:

JDK -> JDK 17 or higher because we are going to
use springboot 3.

IntelliJ IDE

The Problem with spring:

Traditional Spring development was tedious

Qs:

1. Which JAR dependencies do I need?
 2. How do I set up the configuration? (xml or java)
 3. How do I install the server? (Tomcat or jboss or etc)
- & this is just getting started.

SpringBoot is the Solution for this:

- Easier for development
 - Provides the embedded server
 - It resolves the dependency conflict
 - Minimizes the manual configuration part(there is auto configuration.)
- SpringBoot and Spring
 - SpringBoot uses spring BTS
 - SB makes it easier for us
 - Spring_INITIALIZER (Provide by SpringBoot)
start.spring.io
 - Quickly creates a starter spring project.
 - Select dependencies
 - Select build tool(maven/ gradle)
 - Import project in IDE
 - SB embedded server:
Provide the embedded server
 - Tomcat , Undertow, JBossNo need to install server separately

Q – Does SB replace Spring MVC, Spring REST,?

ANS: NO, It uses these technologies

Q - Does SB run code faster than regular code?

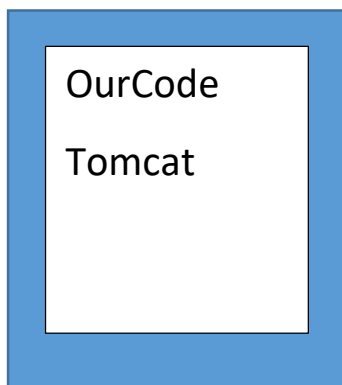
No, SB uses same code of spring framework.

Maven:

When building our project, we may require additional JAR.

Ex. Spring, Hibernate, JSON, etc

firstApp.jar



JAR file includes our application code & the server

Self-contained unit

1st Approach:

Download the JAR files manually from each project website.

Manually add the JAR file to our classpath.

Maven is the Solution:

- Tell maven the projects we are working on (dependencies)
- Maven will go out and download the JAR file for our project.
- Maven will make these JAR files available during the execution(compile/run)
- Maven is like our personal helper or shopper (shopping list)

Development Process:

1. Configure our project at spring initializer (dependency: Spring Web)
2. Download the zip file
3. Unzip file
4. Import project into our IDE.