
Spring Boot

Java Frameworks

Developed as part of Morning School Training Program @ Citicorp Services India Ltd



Challenges



Repetitive Boilerplate Code

- Every NEW project has to define all the common stuff again and again
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Too Much Configuration

- Configurability is good design, in Spring Core everything is configurable
- However, default setting used also needs to be configured
- Too many options for configuration

Build and Deployment

- Manually take care of compatible dependencies
- Leverage on IDE support for running application
- How to run application locally and downstream environments?

What we need?

Full Stack Framework

- like **Rails** in Ruby or **django** and Payton or Symphony in PHP
- Heavy and blots the application with too many components
- Sometime not better way to have different approach in implementation
- What you get is what you can use

Sprint Boot

- Reduce repetitive boilerplate code for every new project
- Default configuration of inbuilt beans with env specific property files
- Embed Tomcat, Jetty or Undertow support for running application
- Automated way of build and deployment (Cloud Support)
- Inbuilt support for production-ready features such as metrics, health checks
- Better support for Unit Testing
- Framework with convention over configuration

Spring Boot Starter POMs

- Include only what you want
- Provides default implementation with capability of configurability and override ability

Spring Maven Plugin

- Executable Jar packaging with ability to run as linux service
- Goals
 - `spring-boot:run`
- <http://docs.spring.io/spring-boot/docs/1.4.0.RELEASE/maven-plugin/>

Unit Testing Support

- First Class support for Unit Testing with mocking support
- <https://spring.io/blog/2016/04/15/testing-improvements-in-spring-boot-1-4>
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Future Reading

- <https://www.infoq.com/presentations/spring-boot-web>
- <https://www.youtube.com/watch?v=FXJPA3lqANg>
- <http://docs.spring.io/spring-boot/docs/1.4.0.RELEASE/reference/htmlsingle/>
- <https://spring.io/guides/gs/spring-boot/>
- <https://spring.io/guides/gs/rest-service/>
- <https://spring.io/blog/2016/04/15/testing-improvements-in-spring-boot-1-4>

Thanks!

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