

API Workshop

Build REST APIs with Spring Boot

O'REILLY®

Software
Architecture

Agenda

- What are RESTful web services?
- Intro to Spring Boot
- Overview of Lab 1

RESTFUL WEB SERVICES

- Web Service APIs adhere to REST constraints
- HTTP - commonly used as the transport layer
- URLs identify resources
 - <http://www.api-workshop.com/todos>
 - <http://www.api-workshop.com/todos/1>
- Operations
 - Create, Read, Update, Delete supported by HTTP Methods

REST OVER HTTP


- HTTP verbs for operations
 - POST, GET, PUT, DELETE
- HTTP status codes represent the result of a request
 - HTTP 2xx - Success
 - HTTP 3xx - Redirection
 - HTTP 4xx - Client errors
 - HTTP 5xx - Server errors

RESTFUL WEB SERVICES WITH SPRING BOOT

- SpringBoot makes it straightforward to build and deploy HTTP based web services

| | |
|---|--|
| Spring Web spring-boot-starter-web | Starter for building web applications using Spring MVC. Uses Tomcat as the default embedded servlet container |
| Spring Reactive Web spring-boot-starter-webflux | Starter for building event-driven reactive web applications with Spring WebFlux and Netty |

Spring Initializr - <http://start.spring.io>



Project
☒ Gradle Project ☐ Maven Project

Language
☒ Java ☐ Kotlin ☐ Groovy

Spring Boot
☐ 3.0.0 (SNAPSHOT) ☐ 3.0.0 (RC2) ☐ 2.7.6 (SNAPSHOT) ☒ 2.7.5
☐ 2.6.14 (SNAPSHOT) ☐ 2.6.13

Project Metadata

Group

Artifact

Name

Description

Package name



Packaging ☒ Jar ☐ War

Java ☐ 19 ☒ 17 ☐ 11 ☐ 8

Dependencies

ADD DEPENDENCIES... ⌘ + B

No dependency selected



GENERATE ⌘ + ↵

EXPLORE CTRL + SPACE

SHARE...

Lab 1 - Spring Boot

<https://github.com/nickebbitt/api-workshop>