## API Workshop

## Build REST APIs with Spring Boot

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

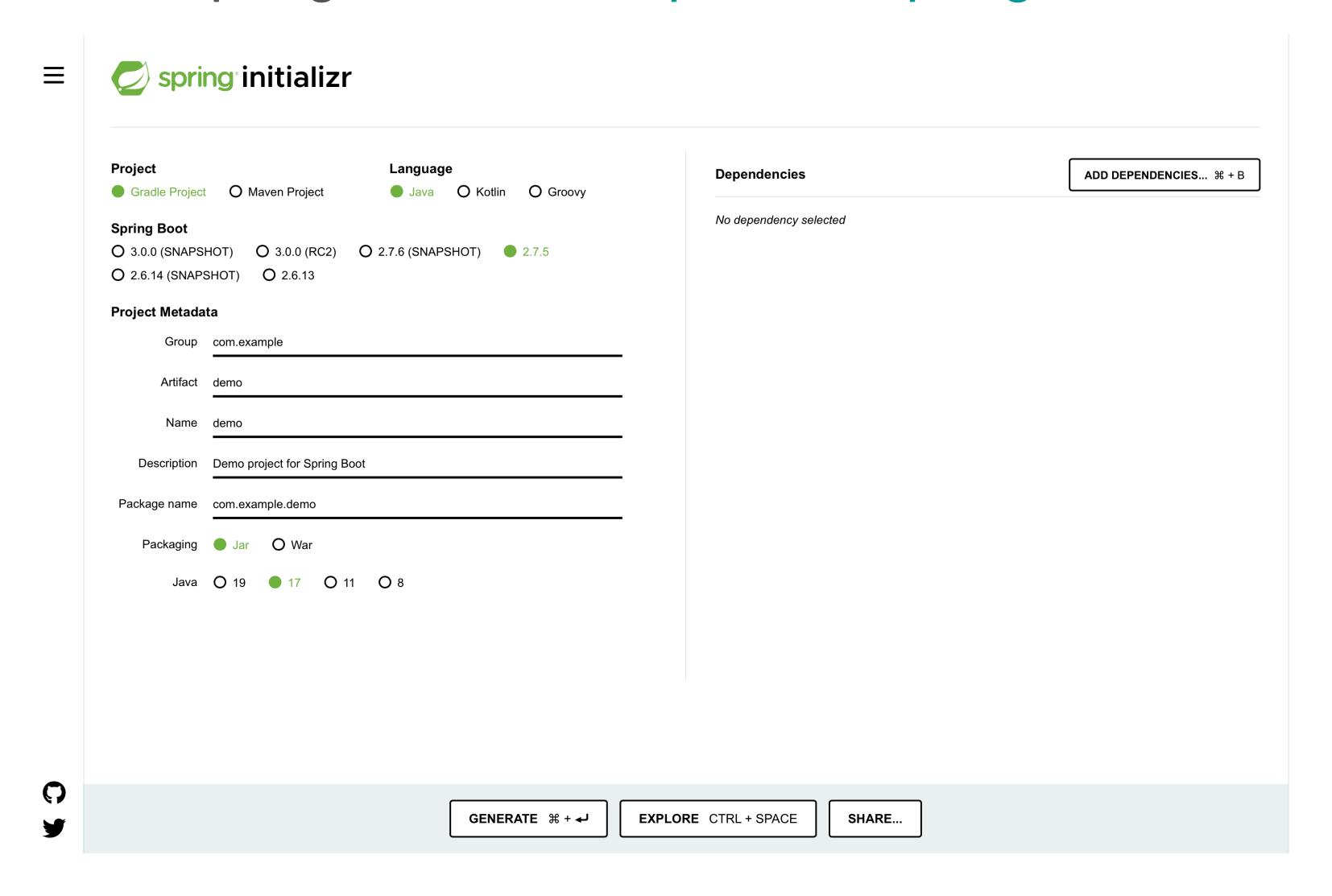
- HTTP verbs for operations
  - POST, GET, PUT, DELETE
- HTTP status codes represent the result of a request
  - HTTP 2xx Success
  - HTTP 3xx Redirection
  - HTTP 4xx Client errors
  - HTTP 5xx Server errors

#### 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



# Lab 1 - Spring Boot

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