

FULL-STACK JAVA DEVELOPMENT

with Spring Boot & VueJS

www.danvega.dev/spring-one-2021

About Me

- Husband & Father
- Enterprise Java Architect at Briebug
- Cleveland
- Content Creator
 - Blog
 - YouTube
 - Course Creator



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About Me

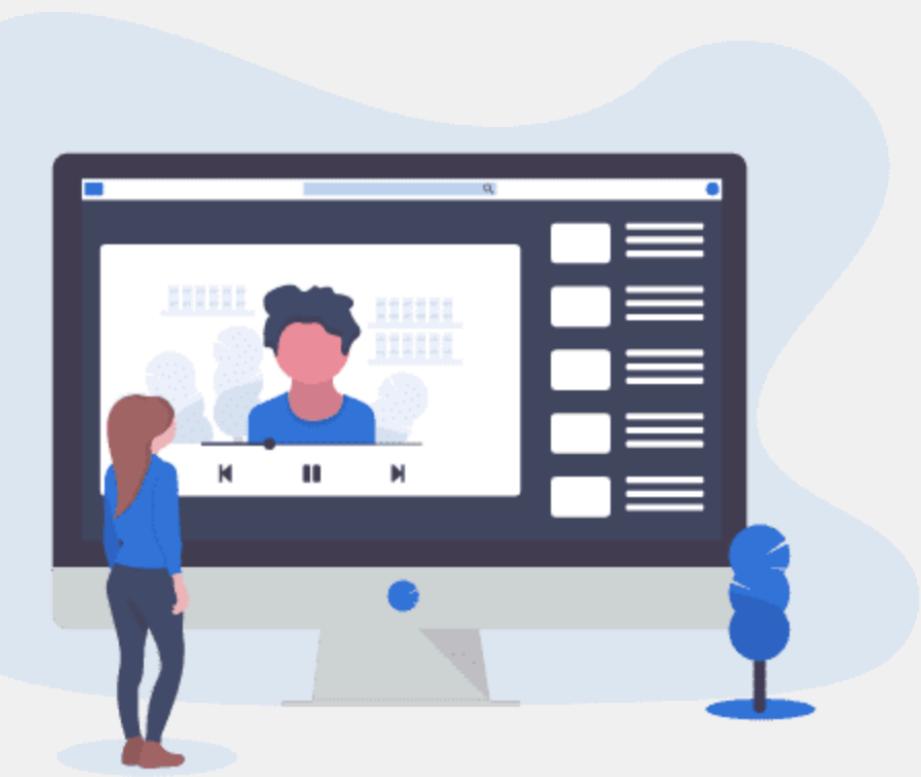
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LEARN TO CODE with Dan Vega

I am passionate about software development, learning new things, and teaching them to you. If you want to learn how to code subscribe to my weekly newsletter for the latest articles and tutorials.

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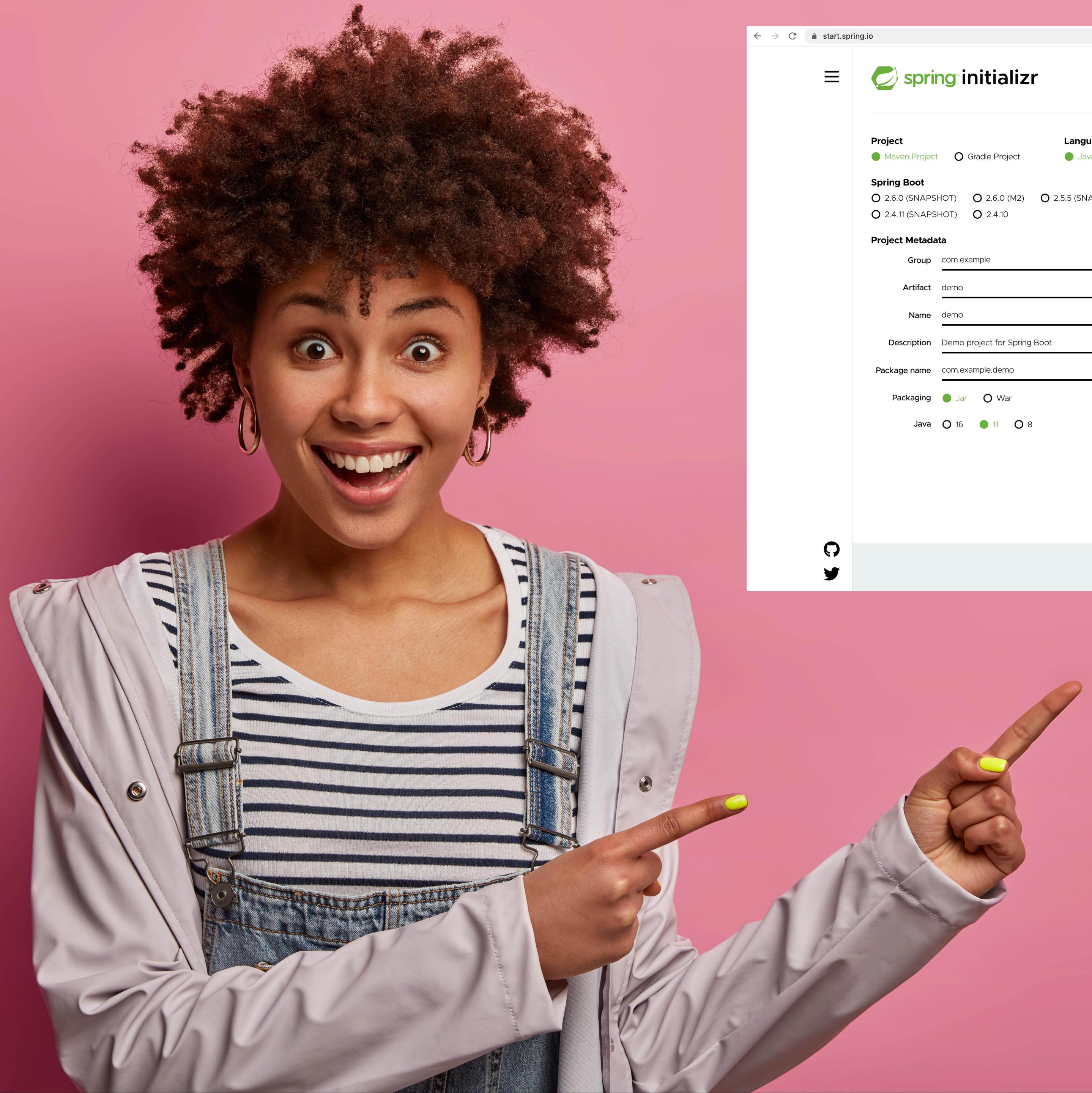


HI, I'M DAN VEGA

I'm a Husband, Father, Enterprise Java Architect and maker of things from Cleveland Ohio. I created this website as a place to document my journey as I learn new things and share them with you. I have a real passion for teaching and I hope that one of [blog posts](#), [videos](#) or [courses](#) helps you solve a problem or learn something new.



SPRING BOOT + VUEJS



start.spring.io

spring initializr

Project Maven Project Gradle Project Language Java Kotlin Groovy

Spring Boot 2.6.0 (SNAPSHOT) 2.6.0 (M2) 2.5.5 (SNAPSHOT) 2.5.4 2.4.11 (SNAPSHOT) 2.4.10

Project Metadata

Group com.example

Artifact demo

Name demo

Description Demo project for Spring Boot

Package name com.example.demo

Packaging Jar War

Java 16 11 8

No dependency selected

Dependencies

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What is Spring?

- Spring Framework

- Open Source Framework
- Java / Kotlin / Groovy
- Maven / Gradle

- What can Spring Do?

- Web Applications
- Cloud
- Microservices
- Serverless
- Event Driven
- Much More

WEB

Spring Web

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

Spring Reactive Web

Build reactive web applications with Spring WebFlux and Netty.

Rest Repositories

Exposing Spring Data repositories over REST via Spring Data REST.

Spring Session

Provides an API and implementations for managing user session information.

Rest Repositories HAL Explorer

Browsing Spring Data REST repositories in your browser.

Spring HATEOAS

Eases the creation of RESTful APIs that follow the HATEOAS principle when working with Spring / Spring MVC.

Spring Web Services

Facilitates contract-first SOAP development. Allows for the creation of flexible web services using one of the many ways to manipulate XML payloads.

Jersey

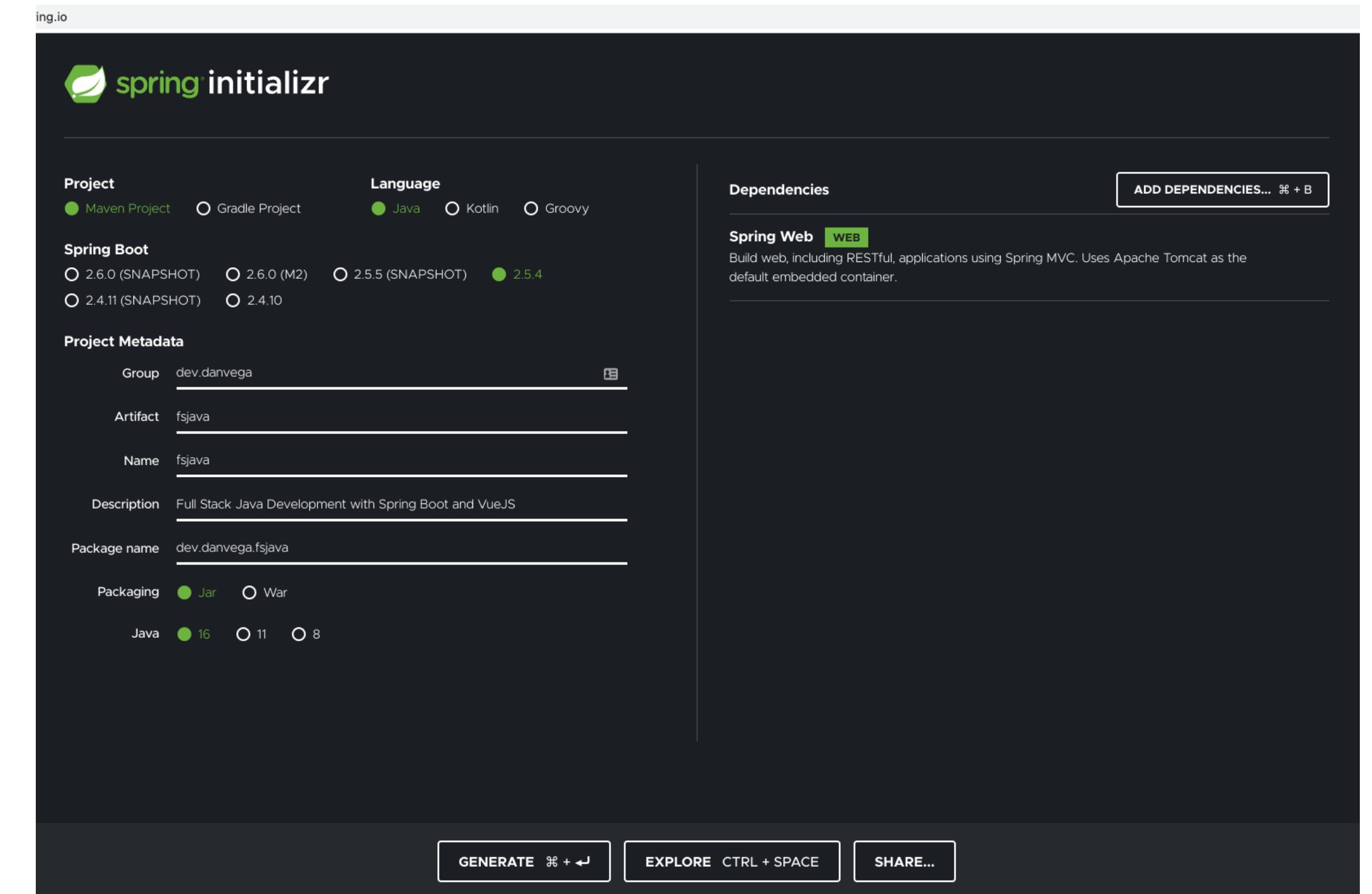
Framework for developing RESTful Web Services in Java that provides support for JAX-RS APIs.

Vaadin

A web framework that allows you to write UI in pure Java without getting bogged down in JS, HTML, and CSS.

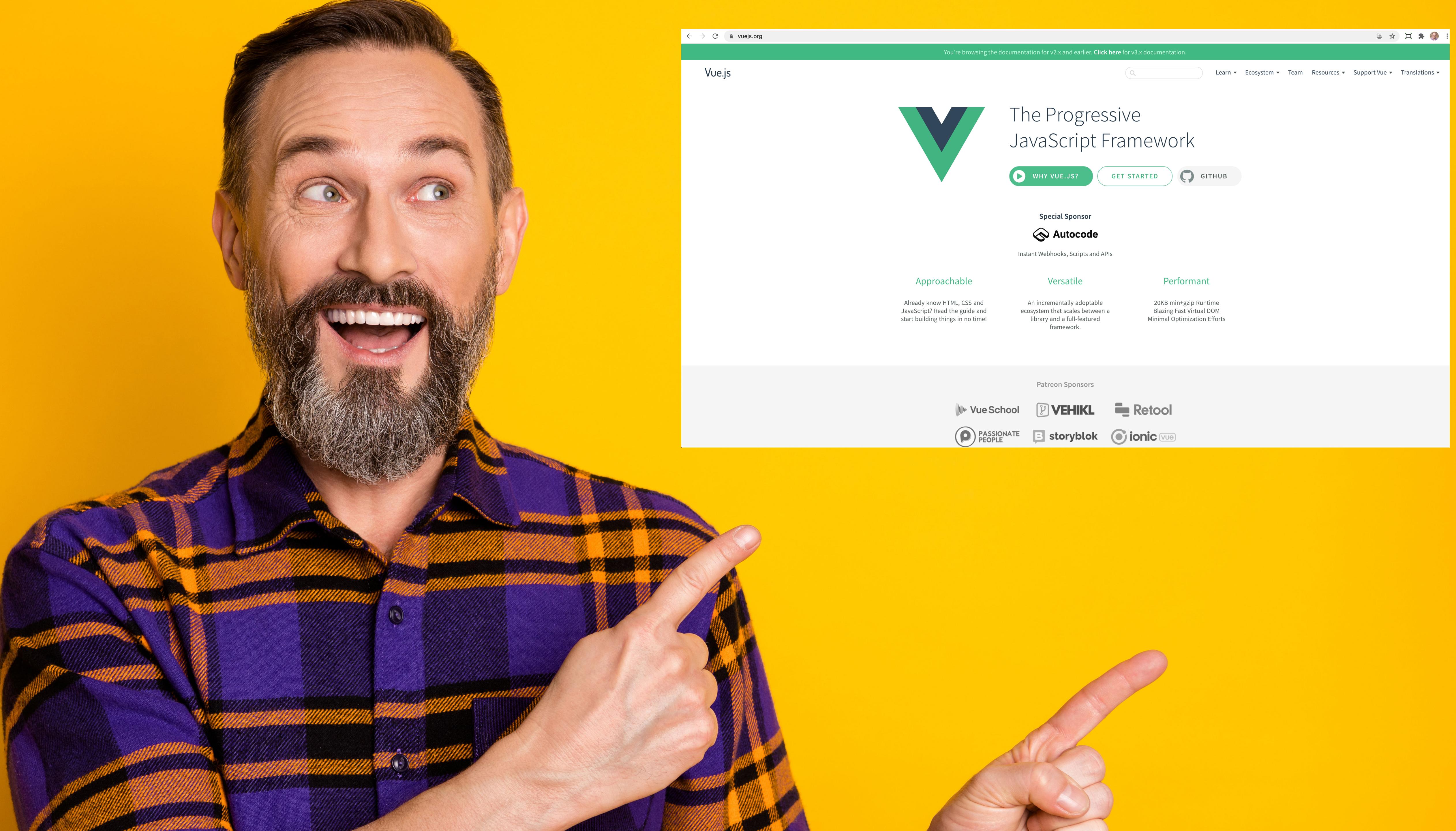
What is Spring Boot?

- Opinionated view of building Spring Applications
- start.spring.io
- Starter Dependencies
- Auto Configuration
- Production Ready Features
 - Metrics
 - Health Checks
 - Externalized Configuration



Spring Projects

- Spring Framework
- Spring Boot
- Spring Data
- Spring Cloud
- Spring Cloud Data Flow
- Spring Security
- Spring GraphQL
- Spring Session
- Spring Integration
- Spring HATEOAS
- Spring REST Docs
- Spring Batch
- Spring AMQP
- Spring CredHub
- Spring Flo
- Spring Apache Kafka
- Spring Roo
- Spring Shell
- Spring StateMachine
- Spring Vault
- Spring Web Flow
- Spring Web Services



← → 🔍 vuejs.org

You're browsing the documentation for v2.x and earlier. [Click here](#) for v3.x documentation.

Vue.js

The Progressive JavaScript Framework

Special Sponsor

 Autocode

Instant Webhooks, Scripts and APIs

Approachable

Already know HTML, CSS and JavaScript? Read the guide and start building things in no time!

Versatile

An incrementally adoptable ecosystem that scales between a library and a full-featured framework.

Performant

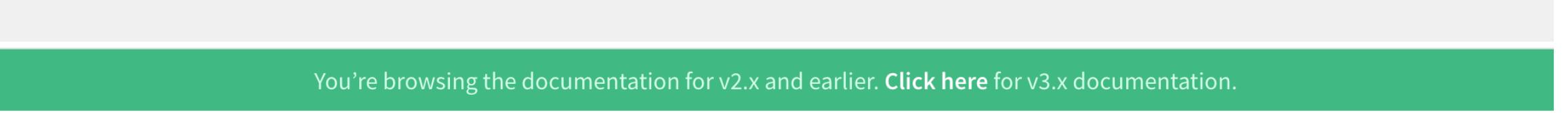
20KB min+gzip Runtime
Blazing Fast Virtual DOM
Minimal Optimization Efforts

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What is VueJS

- JavaScript Frameworks / Libraries
 - Vue / React / Angular / Svelte
- Progressive JavaScript Framework
- Open Source
- Easy to learn
 - HTML / CSS / JavaScript
- Great documentation
- Great ecosystem and community



The Progressive JavaScript Framework

WHY VUE.JS?

GET STARTED

GITHUB

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Agenda

Ice Cream is my agenda

- Progressive Vue
- Monolith
- Single Page Application (SPA)



PROGRESSIVE VUE

“Happening or developing gradually or in stages; proceeding step by step”

pro·gres·sive

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PETITE VUE

Petite Vue is an alternative distribution of Vue optimized for progressive enhancement. It provides the same template syntax and reactivity mental model with standard Vue. However, it is specifically optimized for "sprinkling" small amount of interactions on an existing HTML page rendered by a server framework.

- Only ~5.8kb
- Vue-compatible template syntax
- DOM-based, mutates in place
- Driven by @vue/reactivity

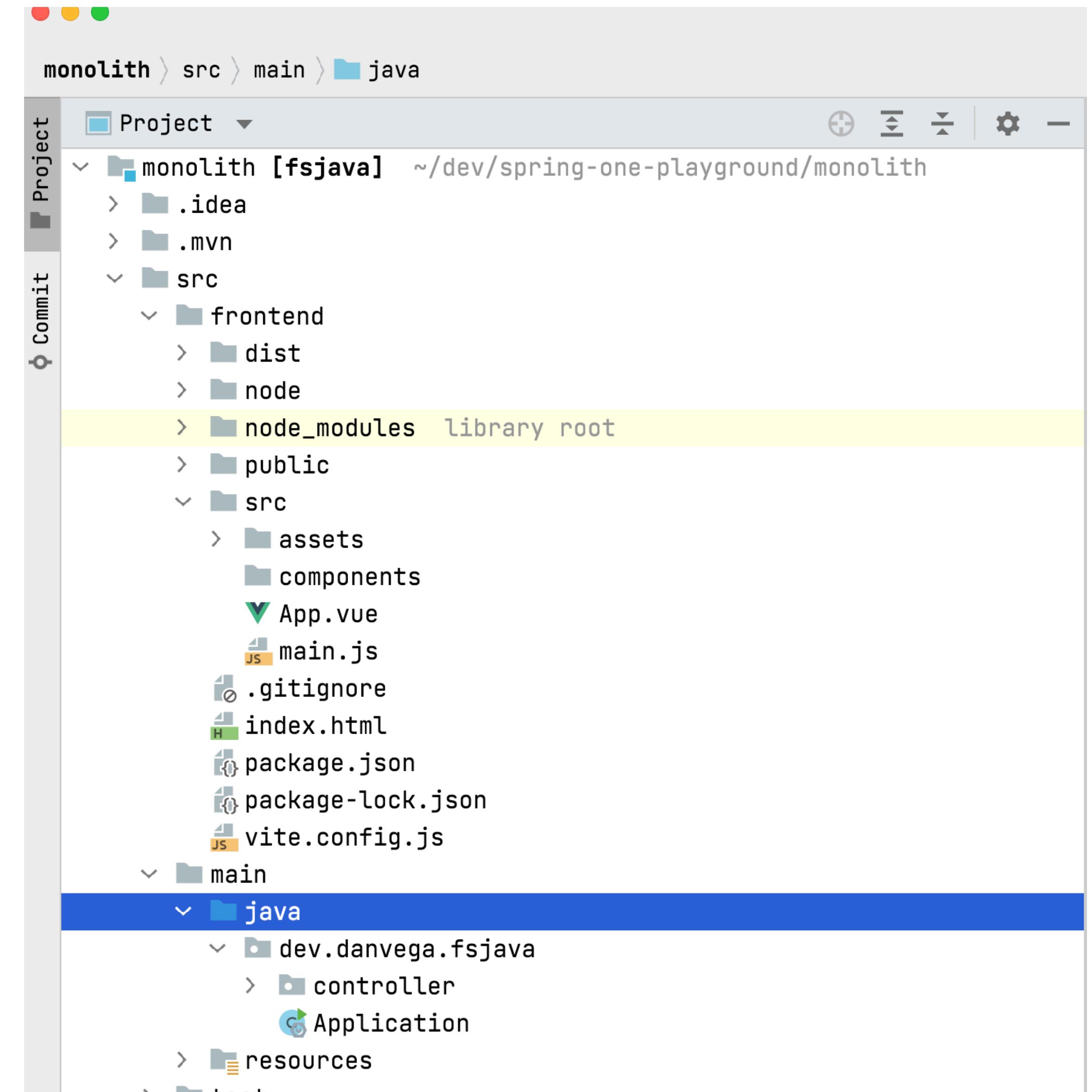
<https://github.com/vuejs/petite-vue>

MONOLITHIC APPLICATION

"A software system is called "monolithic" if it has a monolithic architecture, in which functionally distinguishable aspects are all interwoven, rather than containing architecturally separate components"

MONOLITH APPROACH

- Pros
 - Single Deployable JAR
 - Simplicity
 - Performance
- Cons
 - Single Deployable JAR
 - Tight Coupling



**Project** Maven Project Gradle Project**Language** Java Kotlin Groovy**Spring Boot** 2.6.0 (SNAPSHOT) 2.6.0 (M2) 2.5.5 (SNAPSHOT) 2.5.4
 2.4.11 (SNAPSHOT) 2.4.10**Dependencies****ADD DEPENDENCIES...** ⌘ + B**Spring Web** WEB

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

Project Metadata

Group	dev.danvega	
Artifact	fsjava	
Name	fsjava	
Description	Full Stack Java Development with Spring Boot and VueJS	
Package name	dev.danvega.fsjava	
Packaging	<input checked="" type="radio"/> Jar <input type="radio"/> War	
Java	<input checked="" type="radio"/> 16 <input type="radio"/> 11 <input type="radio"/> 8	

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Vite

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Vite

[Get Started](#)[Learn More](#)

💡 Instant Server Start

On demand file serving over native ESM, no bundling required!

⚡ Lightning Fast HMR

Hot Module Replacement (HMR) that stays fast regardless of app size.

🛠 Rich Features

Out-of-the-box support for TypeScript, JSX, CSS and more.

📦 Optimized Build

Pre-configured Rollup build with multi-page and library mode support.

🔧 Universal Plugins

Rollup-superset plugin interface shared between dev and build.

🔑 Fully Typed APIs

Flexible programmatic APIs with full TypeScript typing.

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SINGLE PAGE APPLICATIONS (SPA)

"A single-page application is a web application or website that interacts with the user by dynamically rewriting the current web page with new data from the web server, instead of the default method of a web browser loading entire new pages."

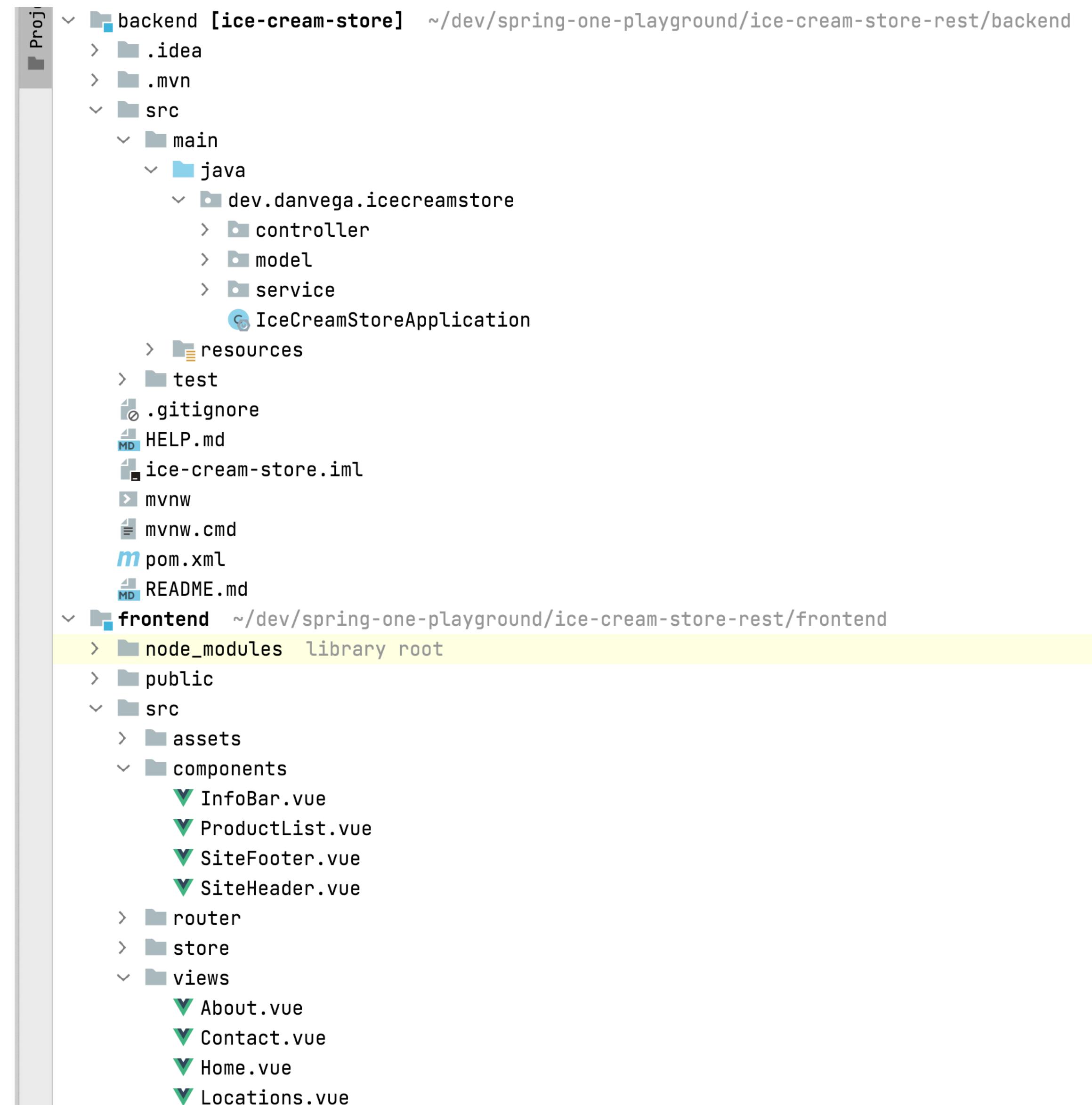
SPA APPROACH

- Pros

- 2 Deployable assets
- Loose Coupling

- Cons

- 2 Deployable assets
- Single Deployable JAR
- Performance *



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QUESTIONS?