



Invisible Digital Power

A transformação começa aqui!



INVISIBLE

DIGITAL

POWER

SPRING DATA

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Agenda

- O que é Spring;
- O que é framework;
- Spring boot;
- Módulos Spring boot;
- Módulo Spring data;
- Configurações;
- Inicializr;
- Projeto exemplo;



Spring framework

O Spring é um framework Java criado com o objetivo de facilitar o desenvolvimento de aplicações, explorando, para isso, os conceitos de **Inversão de Controle** e **Injeção de Dependências**.



Framework

Abstração que une códigos comuns entre vários projetos de software. O framework dita o fluxo de controle da aplicação.



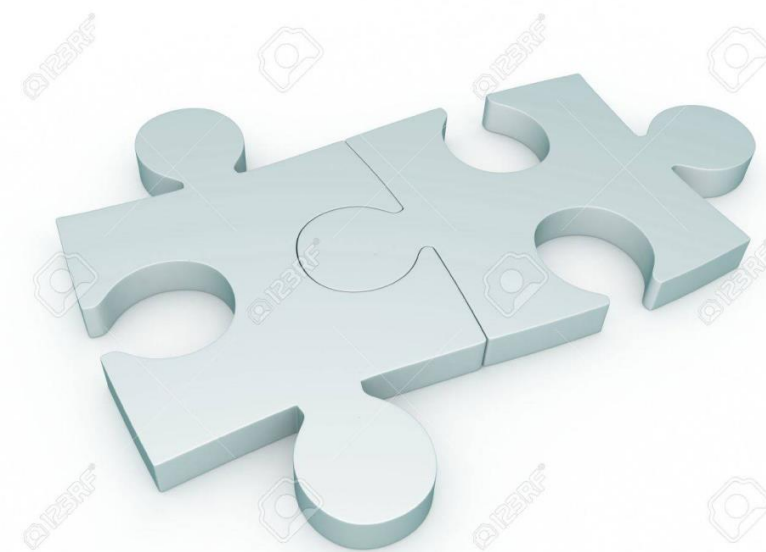
Spring boot

O Spring Boot é um projeto da Pivotal que veio para facilitar o processo de configuração e publicação de nossas aplicações. A intenção é ter o seu projeto rodando o mais rápido possível e sem complicação.



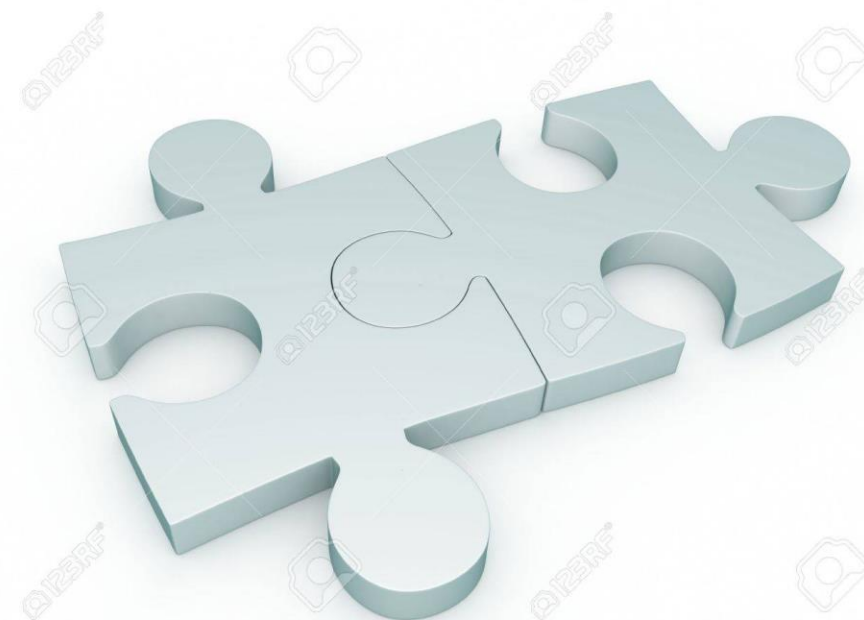
Spring boot – módulos

- **Spring Data (+)**
- Spring Cloud (+)
- Spring Cloud Data Flow (+)
- Spring Security (+)
- Spring Session (+)
- Spring Integration
- Spring HATEOAS
- Spring REST Docs
- Spring Batch
- Spring IO Platform
- Spring AMQP
- Spring for Android
- Spring CredHub
- Spring for Apache Kafka
- Spring LDAP
- Spring Mobile
- Spring Roo
- Spring Shell
- Spring Statemachine
- Spring Test HtmlUnit
- Spring Vault
- Spring Web Flow
- Spring Web Servic



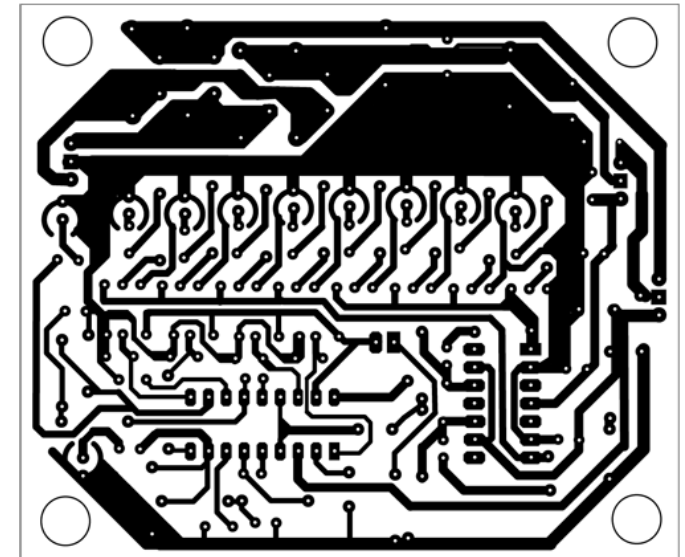
Spring boot – spring data

- Spring Data JDBC
- Spring Data JDBC Extensions
- **Spring Data JPA**
- Spring Data LDAP
- Spring Data MongoDB
- Spring Data Redis
- Spring Data R2DBC
- Spring Data REST
- Spring Data for Apache Cassandra
- Spring Data for Apache Geode
- Spring Data for Apache Solr
- Spring Data for Pivotal GemFire
- Spring Data Couchbase
- Spring Data Elasticsearch
- Spring Data Envers
- Spring Data Neo4J
- Spring for Apache Hadoop



Spring boot – configuração

- Chega de configurações com XML
- Normalmente o arquivo de properties é suficiente



Spring boot – INITIALIZR

<https://start.spring.io/>

Generate a Gradle Project ▾ with Java ▾ and Spring Boot 2.1.2 ▾

Project Metadata

Artifact coordinates

Group

com.example

Artifact

demo

Name

demo

Dependencies

Add Spring Boot Starters and dependencies to your application

Search for dependencies

Web, Security, JPA, Actuator, Devtools...

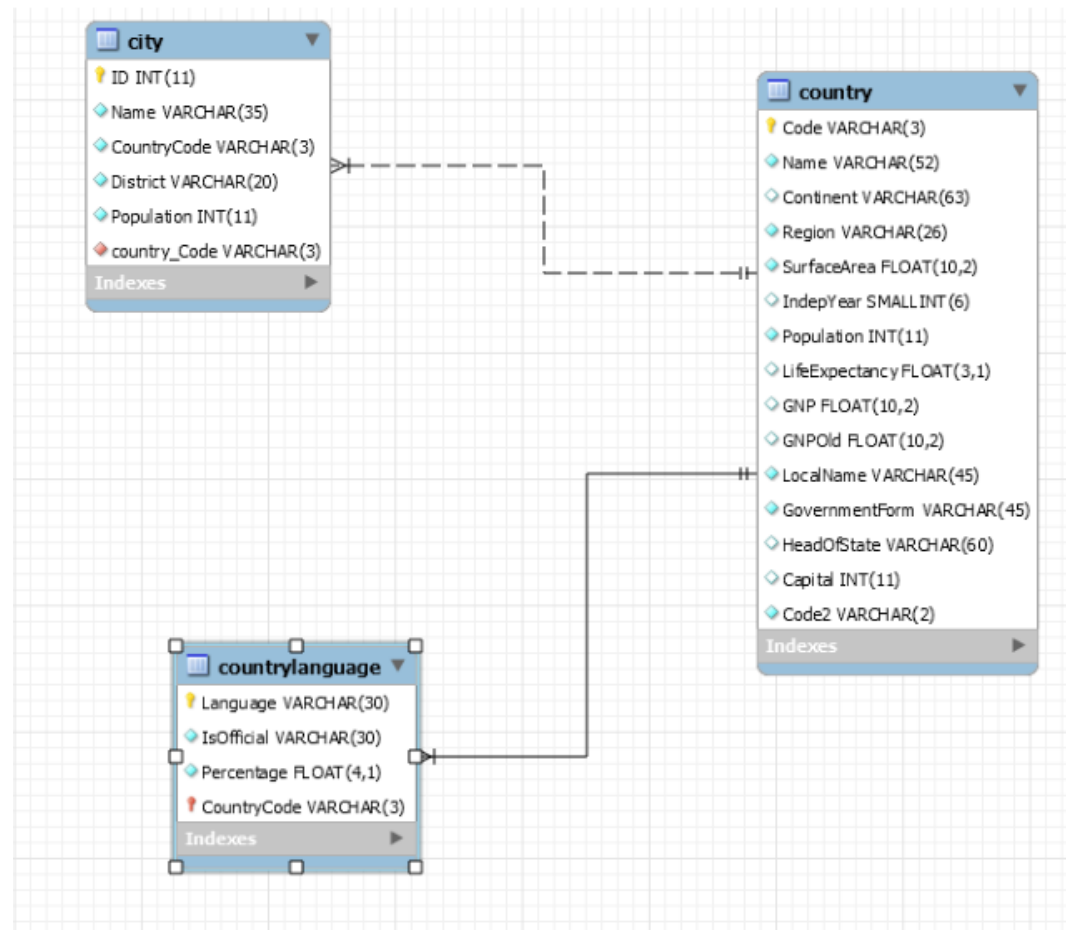
Selected Dependencies

JPA ✕

Web ✕



Projeto – base de dados



Ferramentas

<http://localhost:8080/h2/>

Login

Saved Settings:

Generic MySQL

Setting Name:

Generic MySQL

Save

Remove

Driver Class:

org.h2.Driver

JDBC URL:

jdbc:h2:mem:testdb

User Name:

sa

Password:

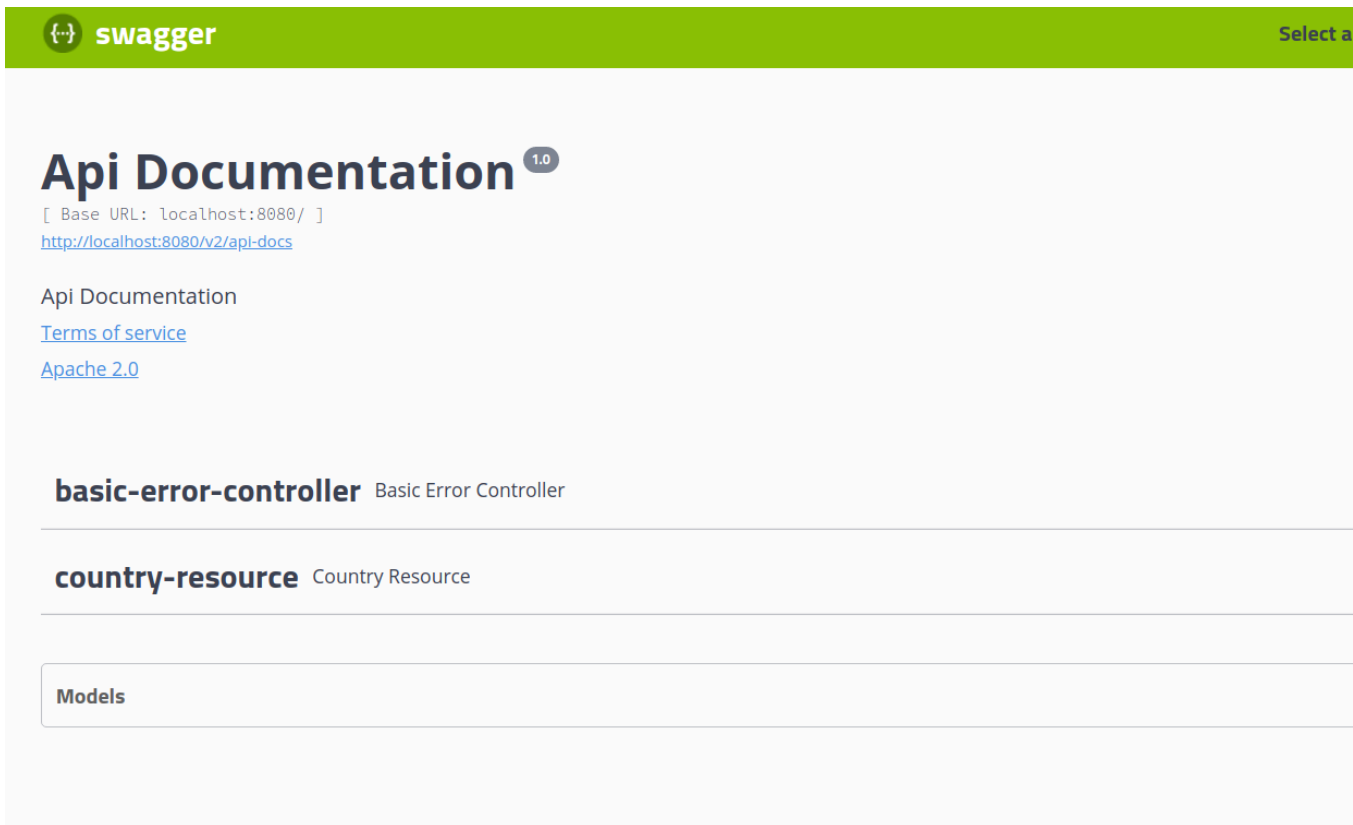
Connect

Test Connection



Ferramentas

<http://localhost:8080/swagger-ui.html>



The screenshot shows the Swagger UI interface. At the top, there is a green header bar with the Swagger logo (a curly brace and arrow) and the word "swagger". To the right of the header, there is a "Select a" dropdown menu. Below the header, the main content area is white. It features the title "Api Documentation" with a version badge "1.0" next to it. Underneath the title, there is a line of text "[Base URL: localhost:8080/]" and a link "[http://localhost:8080/v2/api-docs](\"http://localhost:8080/v2/api-docs\")". Below this, there is a section for "Api Documentation" with links for "[Terms of service](\"#\")" and "[Apache 2.0](\"#\")". Further down, there are two sections: "basic-error-controller" with the description "Basic Error Controller" and "country-resource" with the description "Country Resource". At the bottom, there is a section titled "Models".



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