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author: Ramesh Fadatare

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In this article, I would like to suggest a few free open-source MicroServices projects developed using Spring Boot and Spring cloud for learning purposes.

Spring Boot is the most popular and widely used Java framework for building MicroServices.

Spring Cloud is a framework for building robust cloud applications. The framework facilitates the development of applications by providing solutions to many of the common problems faced when moving to a distributed environment.

Spring Cloud is essentially an implementation of various design patterns to be followed while building Cloud Native applications.

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1. PiggyMetrics

PiggyMetrics - A simple way to deal with personal finances.

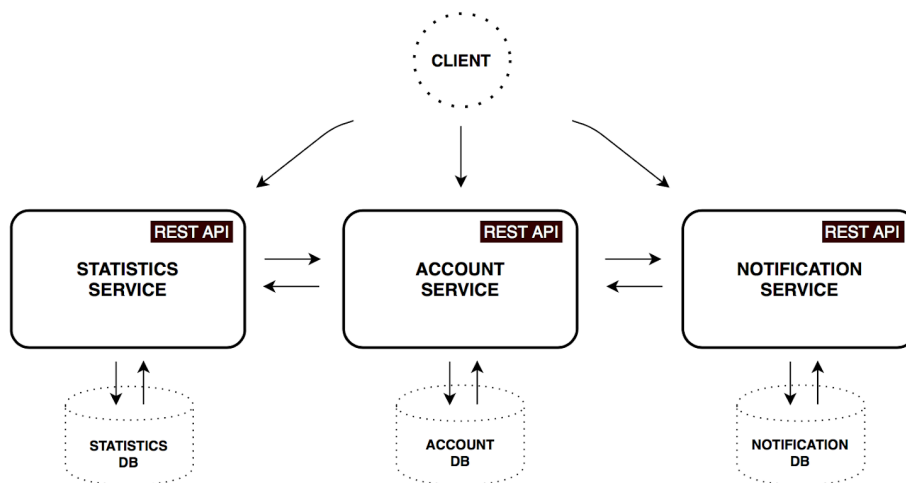PiggyMetrics developed using Microservice Architecture with **Spring Boot**, Spring Cloud, and Docker.

GitHub repository link - **https://github.com/RameshMF/PiggyMetrics**

You will learn:

- Microservice Architecture
- Spring Boot
- Spring Cloud
- Docker
- MongoDB
- RabbitMQ

PiggyMetrics was decomposed into three core microservices. All of them are independently deployable applications, organized around certain business domains.

PiggyMetrics is open source, and you can make contributions, suggestions for improvements.

2. Shopping Cart App

This is a **shopping cart application** developed using Microservice Architecture with **Spring Boot**, Spring Cloud.

Here are the microservices:

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6. **shoppingcart-ui:** It is customer-facing front-end web application.

> GitHub repository link at **https://github.com/sivaprasadreddy/spring-boot-microservices-series**.

> Step by step tutorial series at **https://sivalabs.in/categories/microservices/**

3. Spring Petclinic App

This Spring Petclinic application developed using Microservice Architecture with **Spring Boot**, Spring Cloud.

> GitHub repository link at **https://github.com/spring-petclinic/spring-petclinic-microservices**.

Architecture diagram of the Spring Petclinic Microservices:
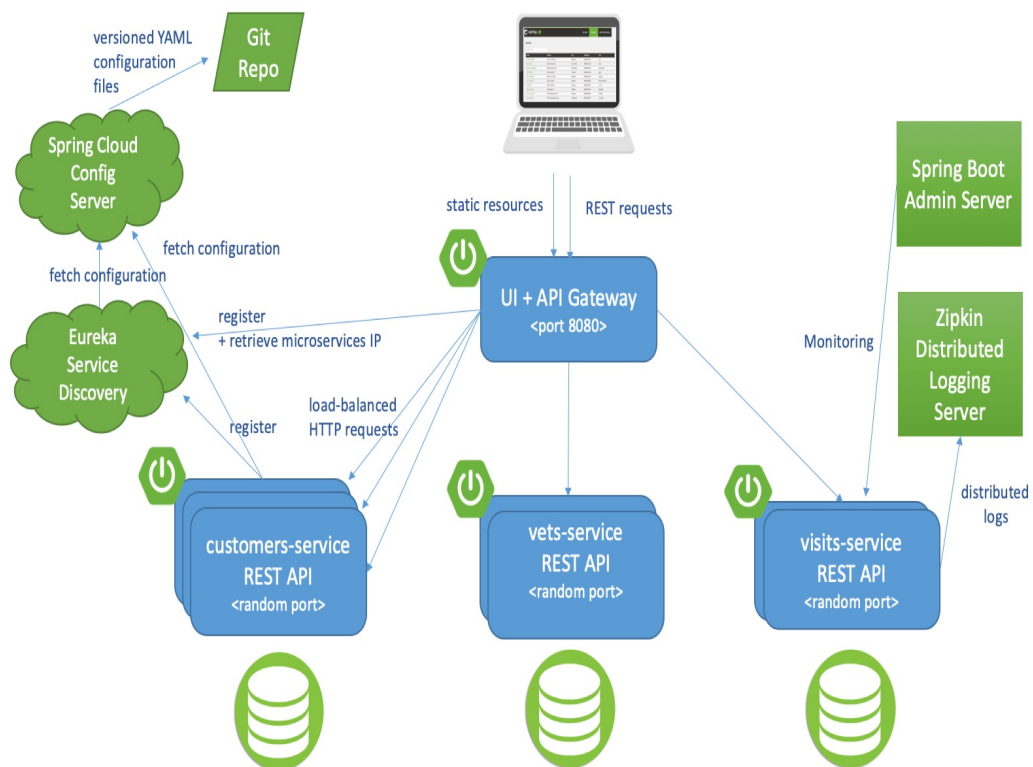

Spring Petclinic is open source, and you can make contributions, suggestions for improvements.

4. Movie Recommendations - Spring Cloud Example Project

This project demonstrates an end-to-end cloud-native platform using Spring Cloud for building a practical microservices architecture.

In this project, you will learn how to build microservice architectures with Spring Cloud and Docker.
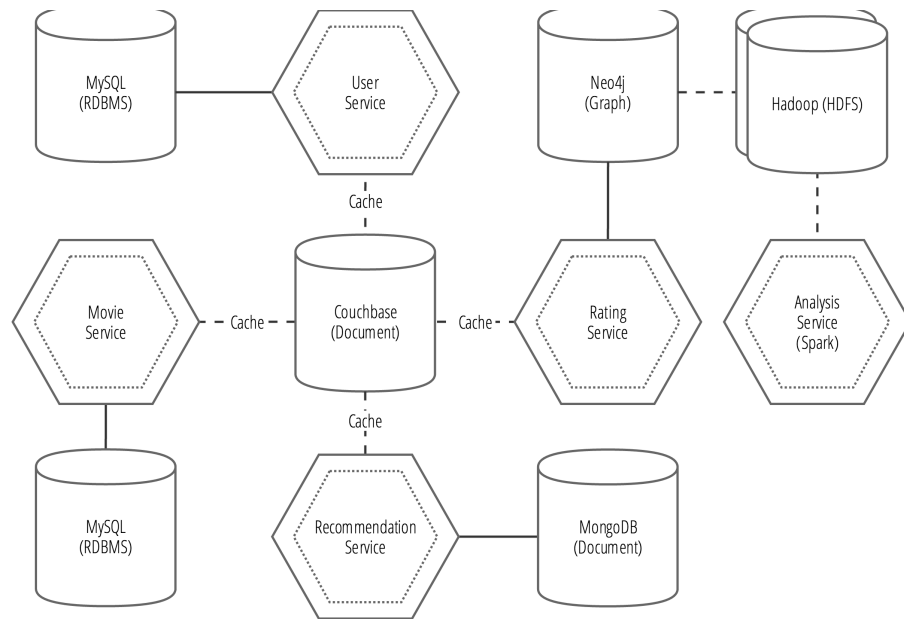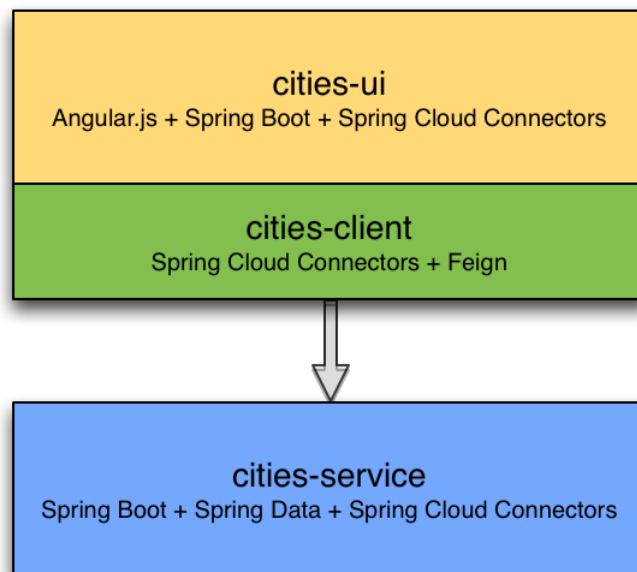
5. Spring Boot Cities

This is a sample project to demonstrate building and deploying a simple Spring Boot based microservice and a web app to consume the microservice.

You will learn:

- Spring boot
- Spring Cloud
- Microservice
- Maven

Source code on - **https://github.com/cf-platform-eng/spring-boot-cities**

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Architecture

This sample microservices-based system consists of the following modules:

- **gateway-service** - a module that Spring Cloud Netflix Zuul for running Spring Boot application that acts as a proxy/gateway in our architecture.
- **config-service** - a module that uses Spring Cloud Config Server for running configuration server in the native mode. The configuration files are placed on the classpath.
- **discovery-service** - a module that depending on the example it uses Spring Cloud Netflix Eureka or Spring Cloud Netflix Alibaba Nacos as an embedded discovery server.
- **employee-service** - a module containing the first of our sample microservices that allows us to perform CRUD operation on an in-memory repository of employees
- **department-service** - a module containing the second of our sample microservices that allows to perform CRUD operation on an in-memory repository of departments. It communicates with employee-service.
- **organization-service** - a module containing the third of sample microservices that allows us to perform CRUD operation on an in-memory repository of organizations. It communicates with both employee-service and organization-service.

The following picture illustrates the architecture described above:
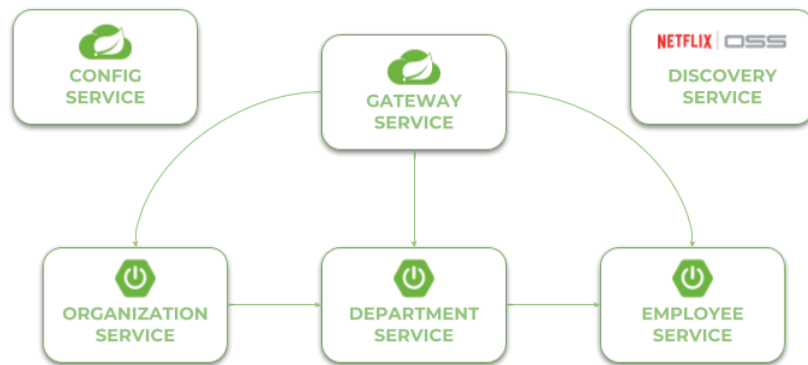

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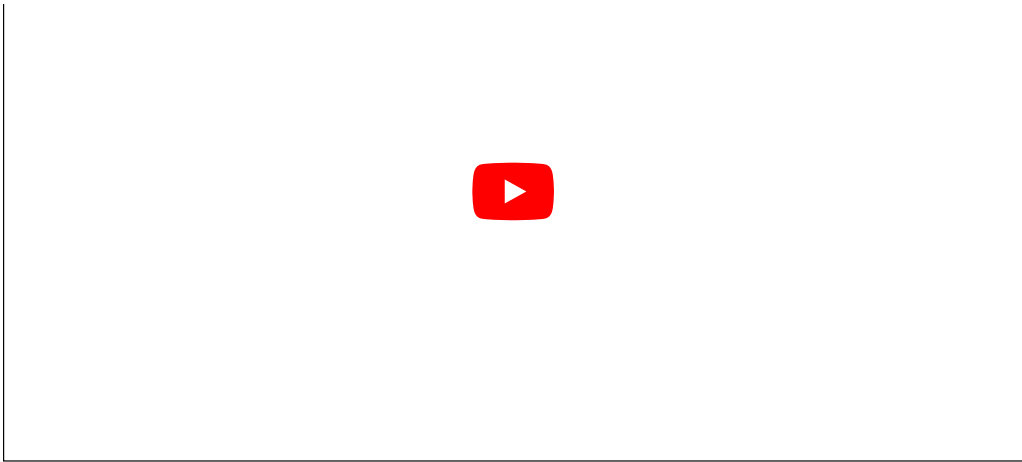
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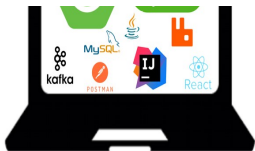My Udemy Course: Building Microservices with Spring Boot

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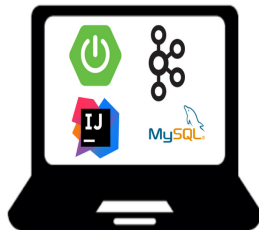My Udemy Course - Master Spring Data JPA with Hibernate

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About Me

Hi, I am **Ramesh Fadatare**. I am VMWare Certified Professional for Spring and Spring Boot 2022.

I am founder and author of this blog website **JavaGuides**, a technical blog dedicated to the Java/Java EE technologies and Full-Stack Java development.

All the articles, guides, tutorials(2000 +) written by me so connect with me if you have any questions/queries. Read more about me at **About Me.**

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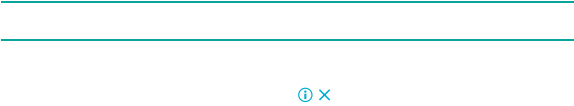
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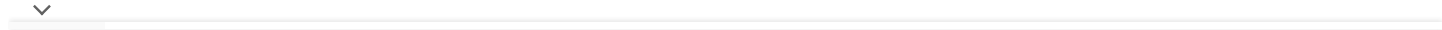
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