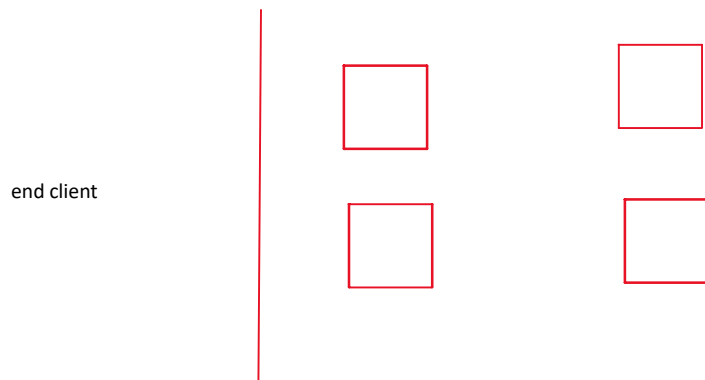
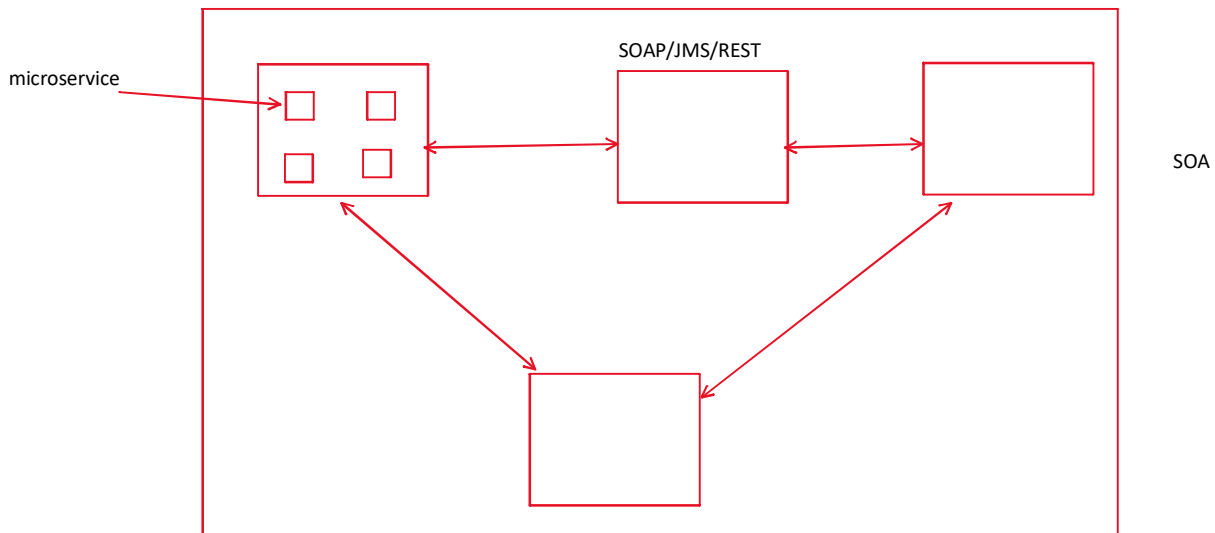


# Microservices (Wells Fargo)

08 March 2021 09:14

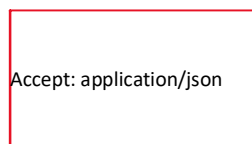


REST

Re --> some sort of data representation  
State --> resource/data  
T ---> exchange

Accept  
Content-Type

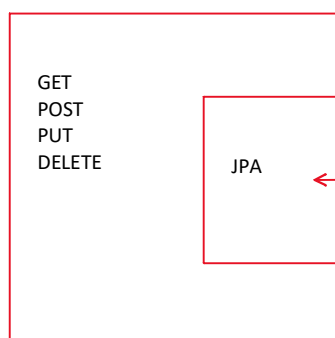
Client



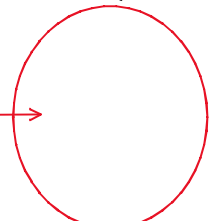
Service

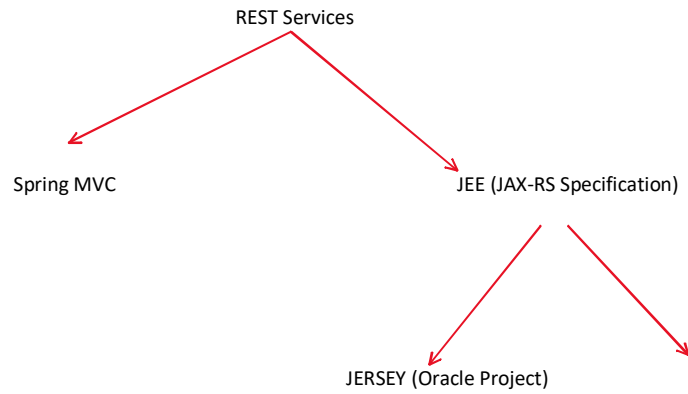


microservice (emp-data-service)



MYSQL DB





profiles:

dev	ds1 (mysql)
-----	-------------

testing ds2 (mysql)

prod ds3(oracle)

as Configclass  
application.yml  
commandline args

-Dspring.profiles.active=dev

Entity ---> javaBean --> property

```

{
  "empid": 100,
  "name": "Amitabh",
  "city": "Chennai",
  "salary": 30000.0
}
  
```

e.setEmpid(100)

setEmpid()

Service Documentation

in SOAP --WSDL

Swagger (OpenAPI)

GET /emp/find/xxx

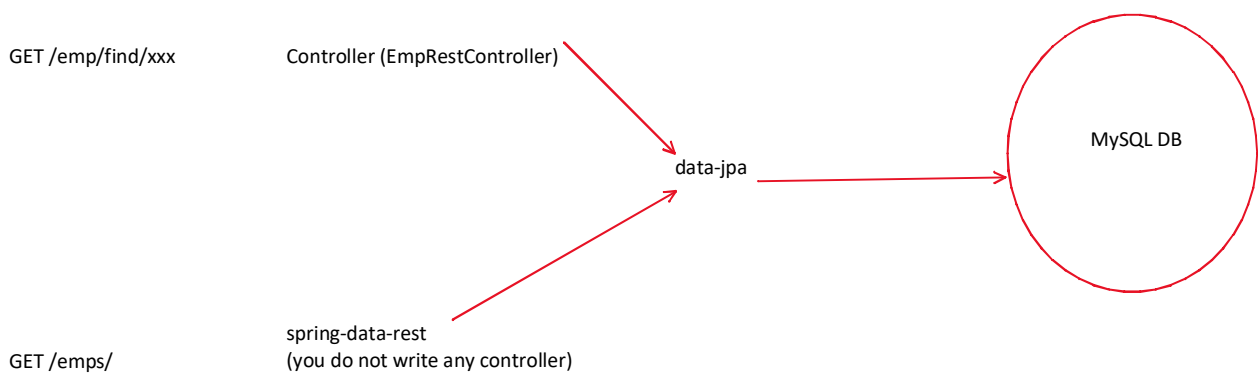
Controller (EmpRestController)

data-jpa

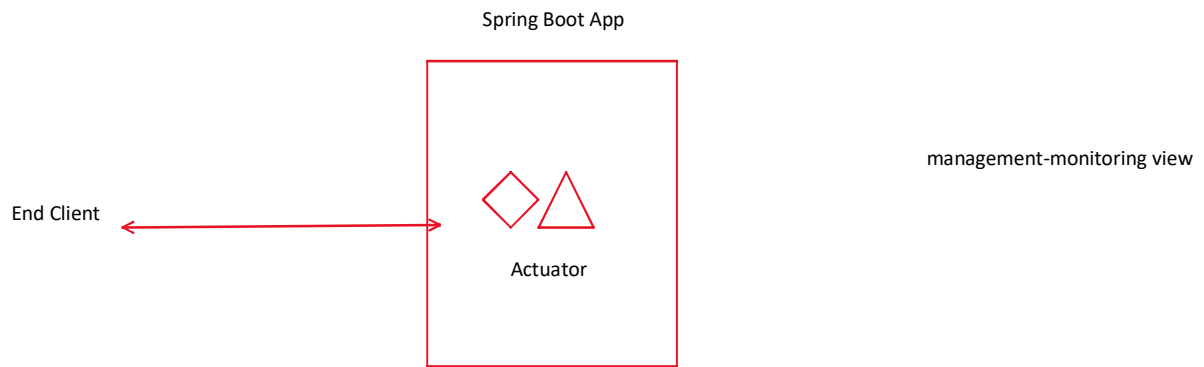
MySQL DB

GET /emps/

spring-data-rest  
(you do not write any controller)



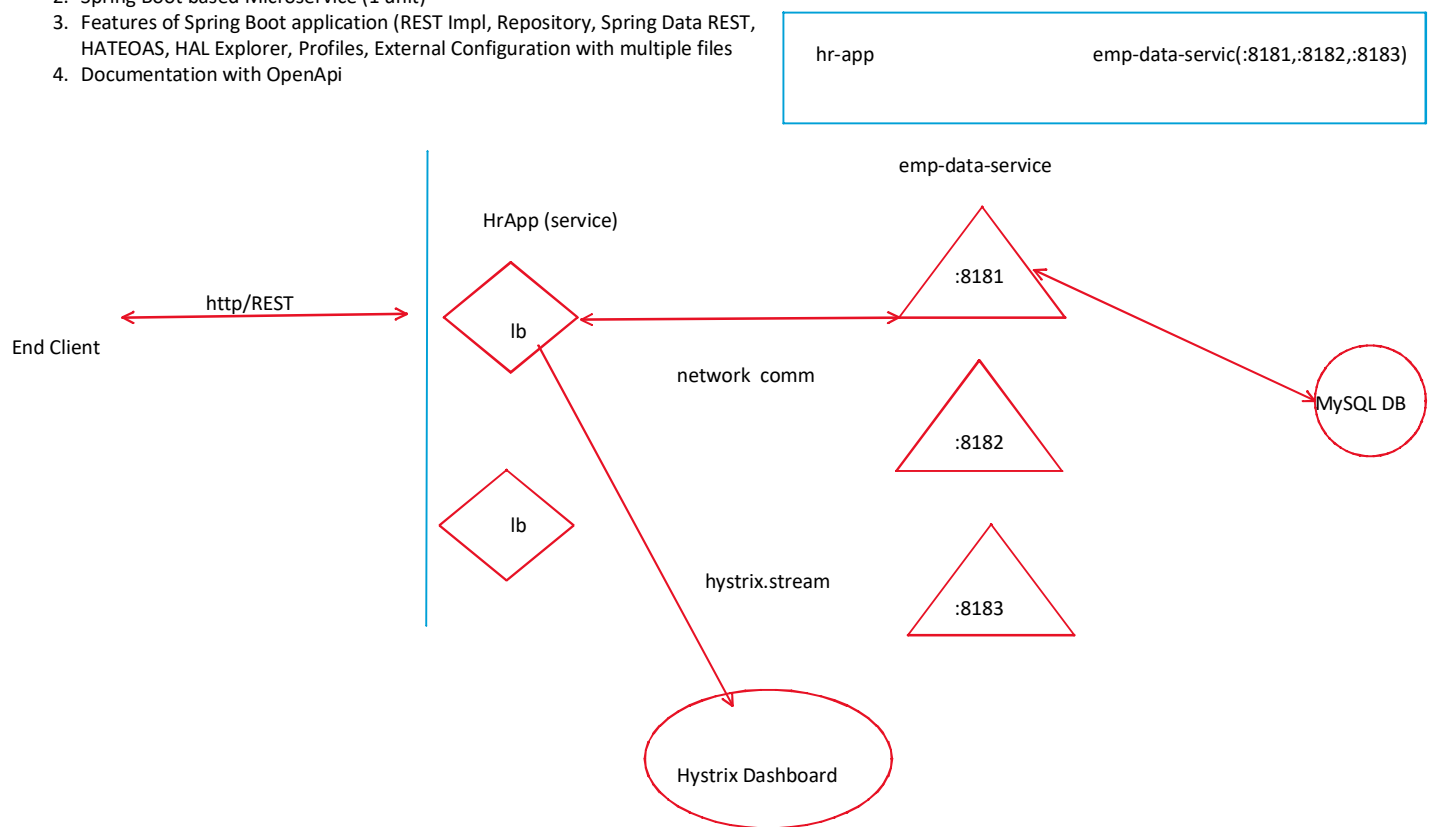
JMX



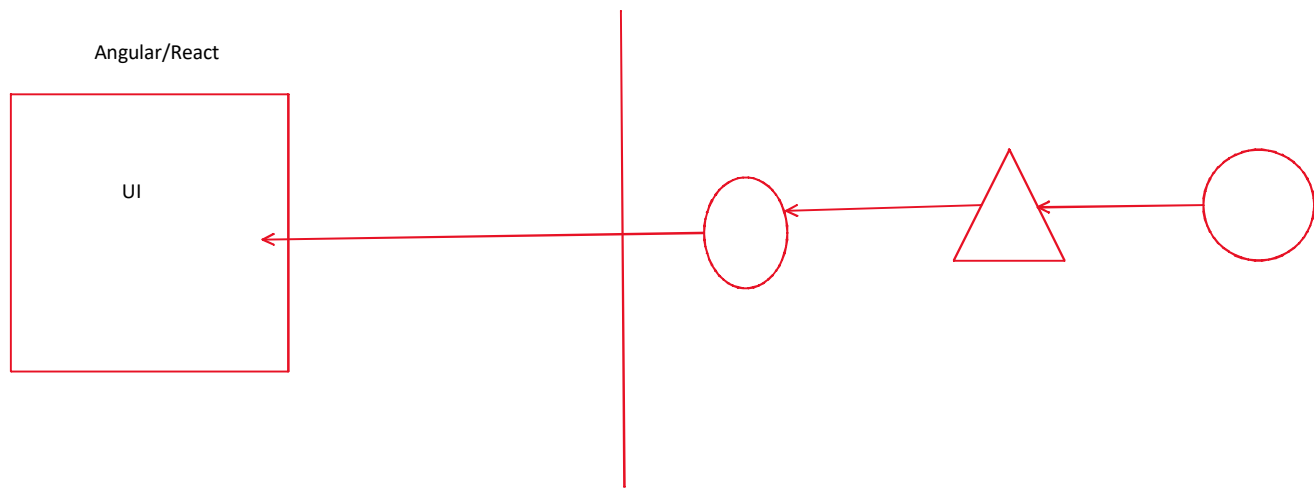
what we learnt:

1. definitions of microservices
2. Spring Boot based Microservice (1 unit)
3. Features of Spring Boot application (REST Impl, Repository, Spring Data REST, HATEOAS, HAL Explorer, Profiles, External Configuration with multiple files)
4. Documentation with OpenApi

Eureka Server

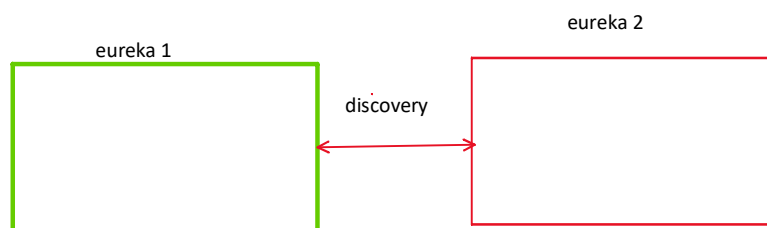
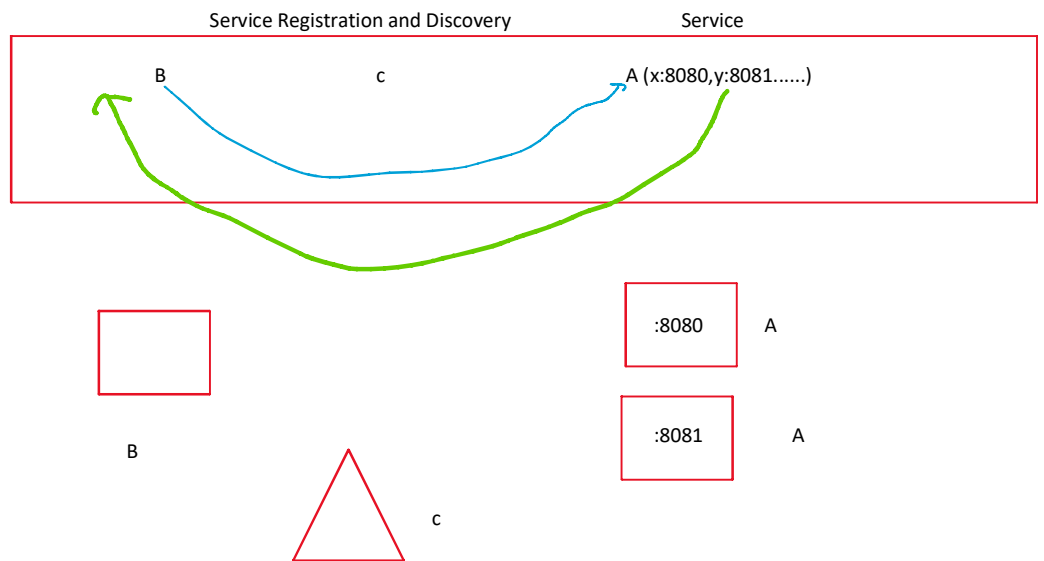


RestTemplate



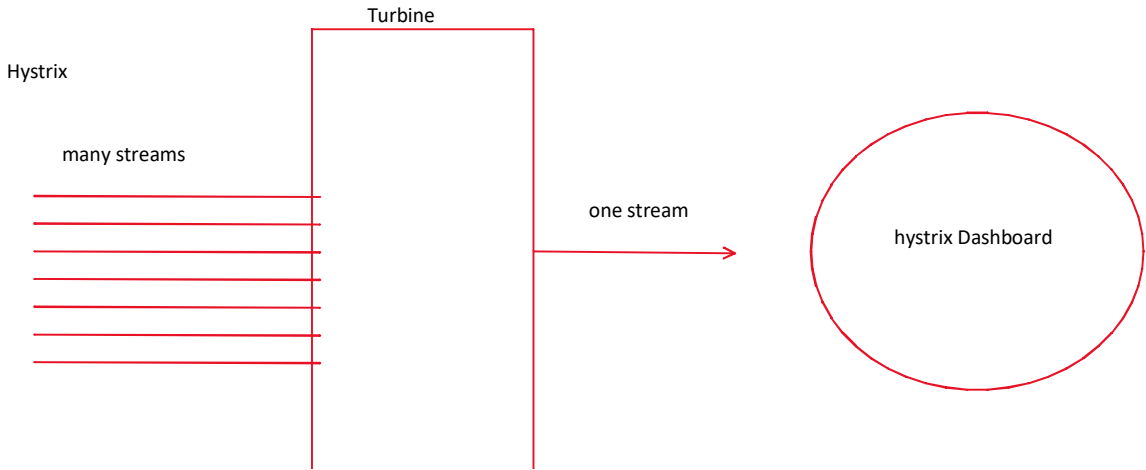
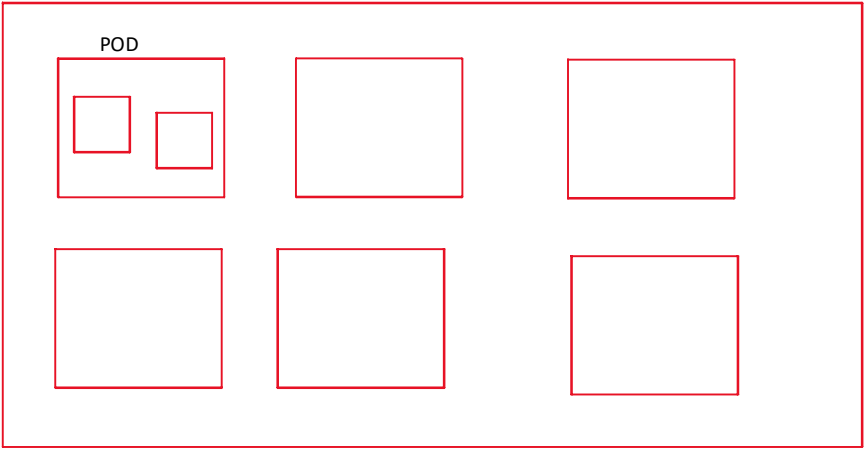
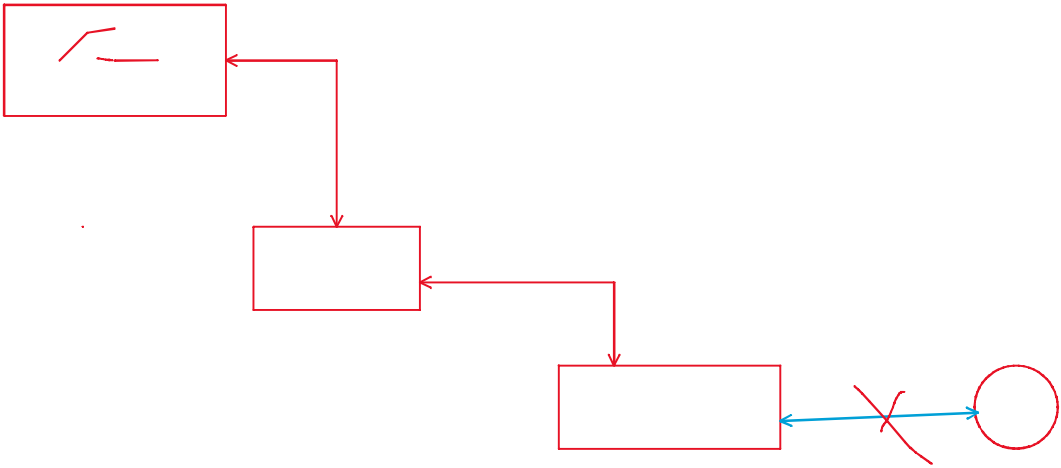
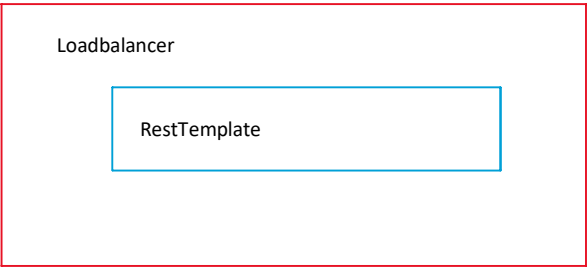
#### Registry Server

1. Netflix Eureka
2. Hashicorp Consul
3. Apache Zookeeper

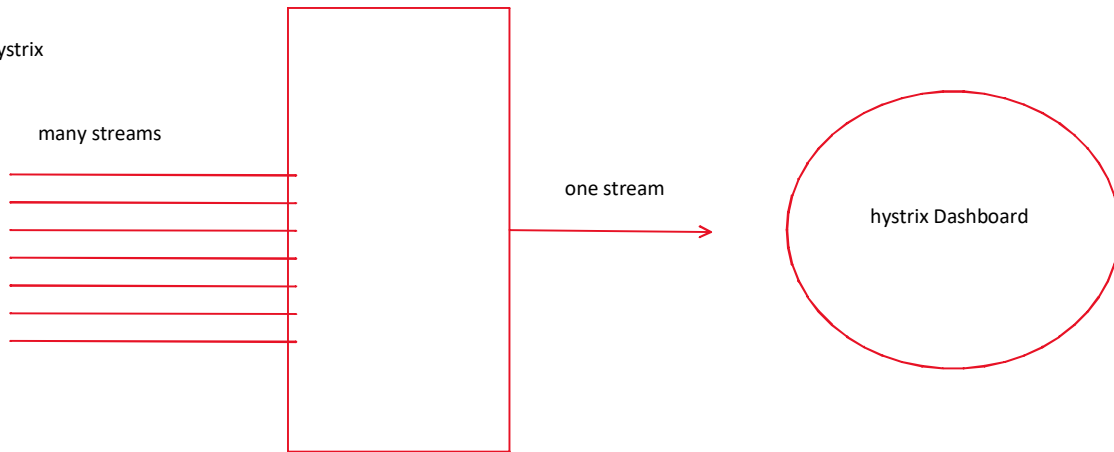


#### For Eureka Server

1. create a simple Spring boot application with Eureka Server Dependency
2. Annotate the main class with `@EnableEurekaServer/`  
`@EnableDiscoveryServer`



Hystrix



API Gateway supported in spring cloud stack is netflix ZUUL

