

PersistantContext : Exception arising by EM will be represented by exception classes of JPA exception classes

Student (DAO->Service->Controller) [CRUD Functionality]
Employee (DAO->Service->Controller) [CRUD Functionality]
Book (DAO->Service->Controller) [CRUD Functionality]

Spring boot starter data rest addition of data-jpa project + rest project

DaoRepository (interface inherits JPA Repository)

DAO impl

Service

Controller

Rule

Entity : Student ~ plural

/students GET

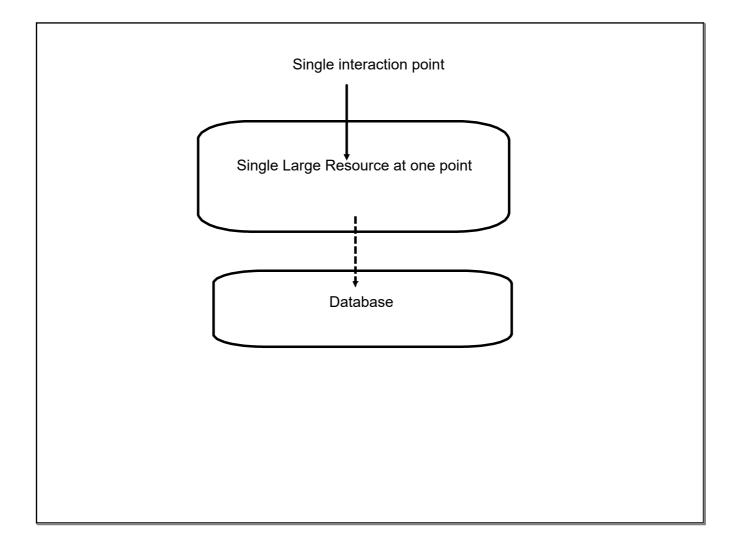
/students/{studentId} GET

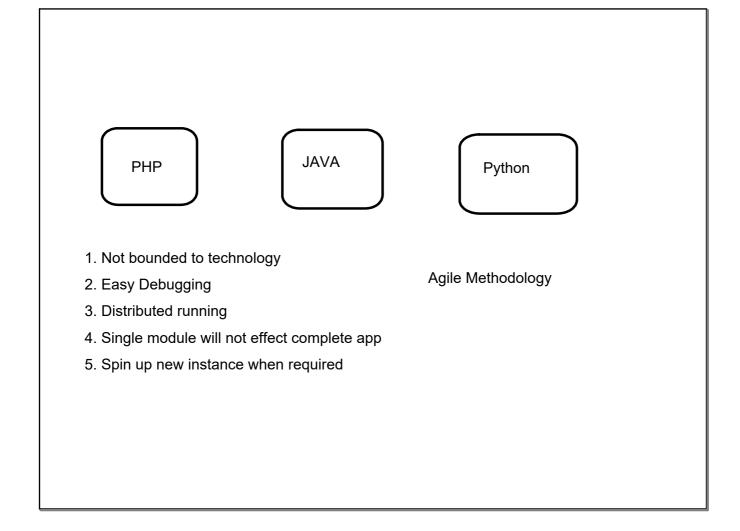
/student POST

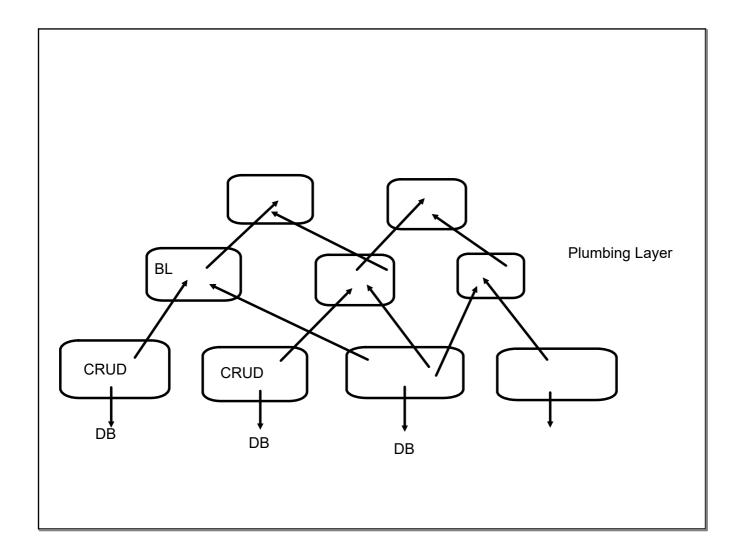
/student PUT

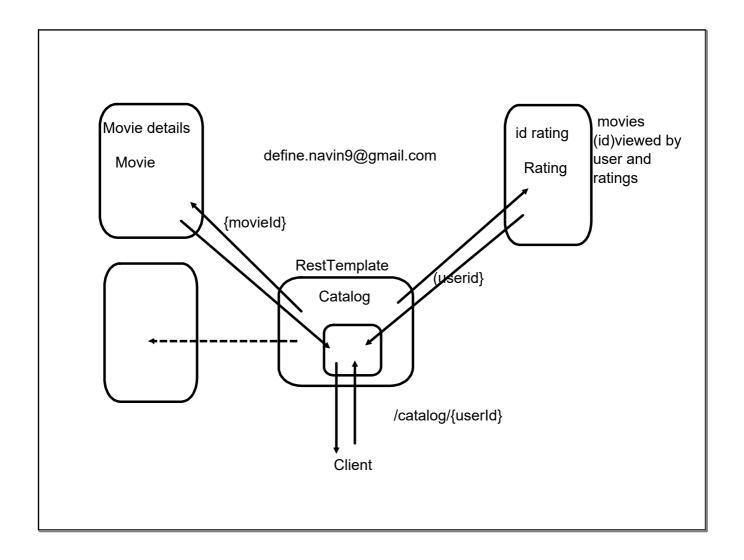
/student/{studentId} DELETE

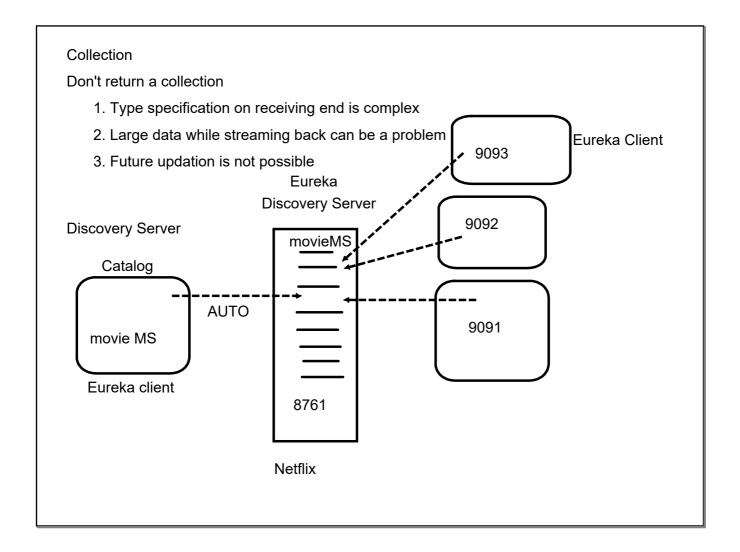
Spring Data REST : HATEOS Compliant











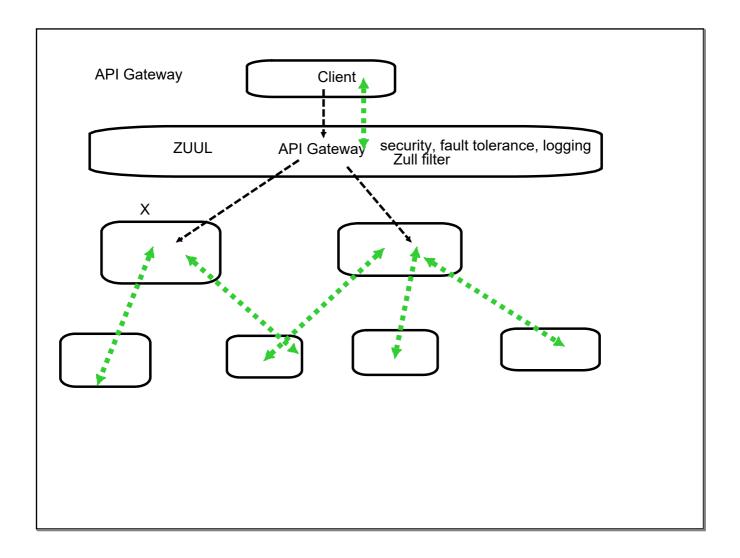
REST Template

Feign Client (Netflix)

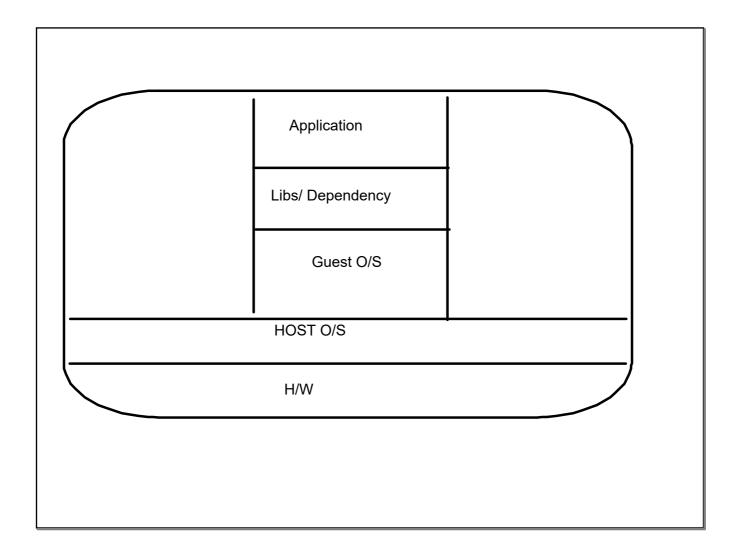
- 1. Connect an exclusive Load balancing Tool with FeignClient : Ribbon (Configurable)
- 2. no more use of url

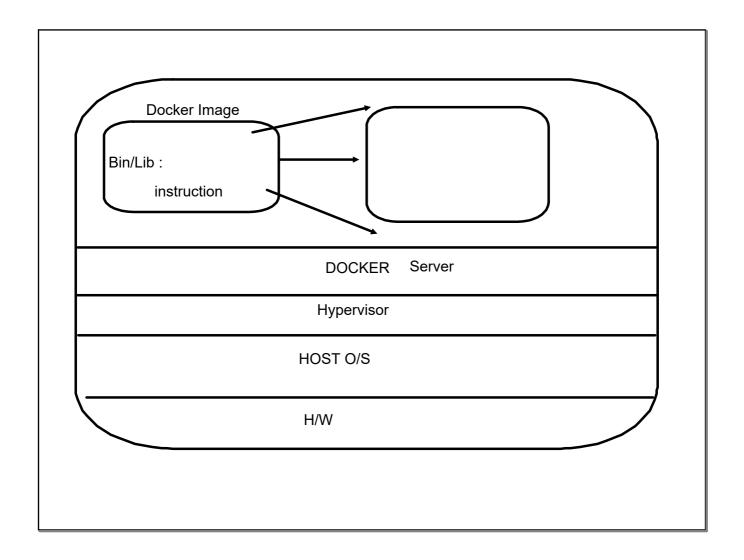
Fiegn Proxy interface

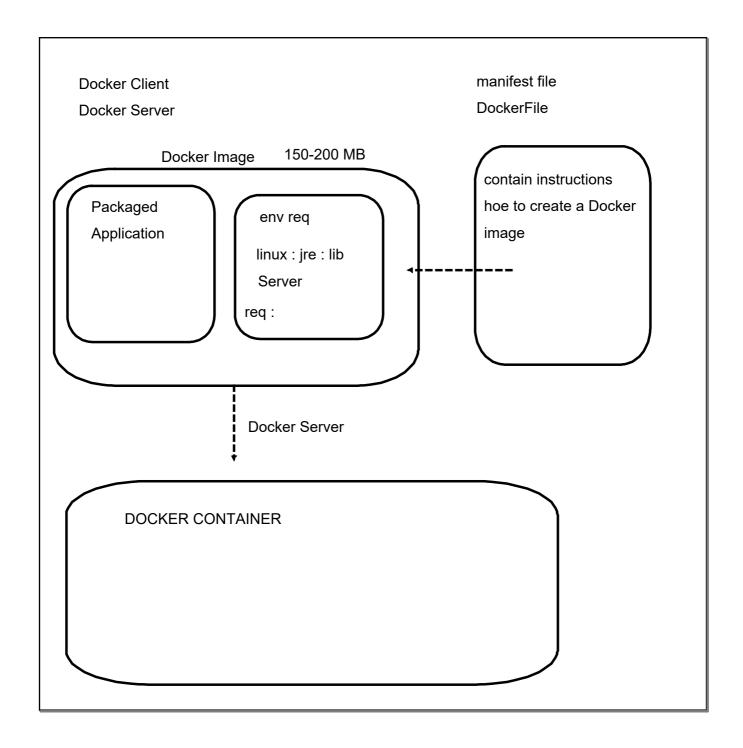
1 Interface for each ms that we want to talk with



Docker		
Problem		
"Application runs on my mach	nine"	
Agile style CI/CD		
Dedicated		
Virtual Machine Vs Contair	ner	







docker build -t <image name=""/> <location dockerfile="" of=""> docker build -t naming-server .</location>
docker container run -d -p <new port=""> : <internal number="" port=""> <image name=""/></internal></new>
d : detached mode -p port mapping
docker images : lists all docker images
docker container ls: lists all the running containers

Agile process of development : CI/CD
Continous Integration & Deployment

Tool (Automating)

1. package (2 hrs) (maven)
2. testing (1/2 hrs) (maven)
3. docker image creation 1/2
4. deploy (docker client)

Jenkins Pipeline : Groovy

Jenkins/CircleCI

Jenkins

- 1. Create a new build job : FreeStyle project
- 2. prelims: Global Env (connect with local res or install auto)
 - 1. JDK
 - 2. Maven
 - 3. Git
- 3. configure the git location of project: Jenkins will fetch code auto...
- 4. to schedule the build
- 5. specify what to do in build job

Test:

Junit Test report generator

Code Coverage : JaCoCo

https:// jenkins.io/doc/