DOCUMENTACION TALLER

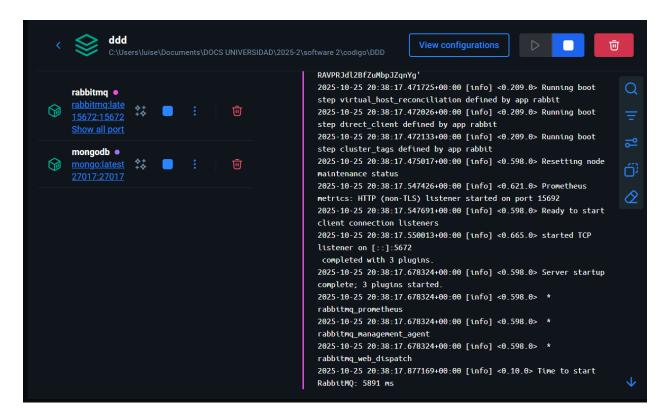
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JULIAN BAYONA

DEVID CRUZ

LINK REPO https://github.com/luisDeveloper2002/DDD.git

Validad que al hacer el compose up esten bien los contenedores



Se crea la clase users en domain

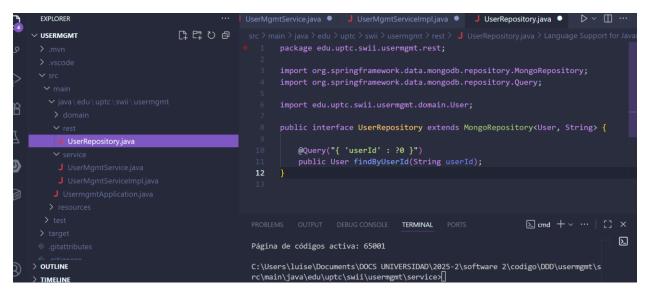
```
USERMGMT
                                         package edu.uptc.domain;
                                         import org.springframework.data.annotation.Id;
                                         import org.springframework.data.mongodb.core.mapping.Document;
                                         @Document(collection = "appusers")
                                         public class User {
                                             private String id;
                                             private String userId;
                                             private String firstName;
                                             private String lastName;
                                             private Integer age;
 mvnw.cmd
                                             public User(String userId, String firstName, String lastName, Integer age) {
> OUTLINE
> TIMELINE
                                                 this.firstName = firstName;
> JAVA PROJECTS
> MAVEN
```

Se crea el service

```
> .mvn

| package edu.uptc.swii.usermgmt.service | JoserMgmtService |
```

Se crea el repository



Se crea el service implement

```
EXPLORER
                                         ··· UserMgmtService.java ● J UserMgmtServiceImpl.java ● J UserRepository.java ● ▷ ∨ 🗓 ··
∨ USERMGMT
                                                10
                                                     public class UserMgmtServiceImpl implements UserMgmtService {
                                                         @Autowired
                                                         UserRepository userRepo;
                                                         @Override
                                                            userRepo.save(user);
> OUTLINE
                                                         @Override
> TIMELINE
                                                            User user = userRepo.findByUserId(userId);
> JAVA PROJECTS
                                                             userRepo.delete(user);
> MAVEN
```

Se crea el endpoiont

Se adiciona estas dos notaciones en el aplication

```
      ✓ USERMGMT
      src > main > java > edu > uptc > swii > usermgmt > J UsermgmtApplication.java > ...

      > .mvn
      1
      package edu.uptc.swii.usermgmt;

      > .vscode
      2

      ✓ src
      3
      import org.springframework.boot.SpringApplication;

      ✓ main
      4
      import org.springframework.boot.autoconfigure.SpringBootApplication;

      ✓ java\edu\uptc\swii\usermgmt
      5
      import org.springframework.cloud.client.discovery.EnableDiscoveryClient;

      ✓ java\edu\uptc\swii\usermgmt
      6
      import org.springframework.context.annotation.ComponentScan;

      ✓ domain
      7

      ✓ rest
      8
      @EnableDiscoveryClient

      ØSpringBootApplication
      @ComponentScan(basePockages - ["adu.uptc.swii.usermgmt"))

      ✓ service
      11

      J UserMgmtServicejava
      12

      J UserMgmtServiceimpljava
      14

      J UsermgmtApplication.java
      14

      J UsermgmtApplication.java
      14

      N resources
      15

      N target
      18

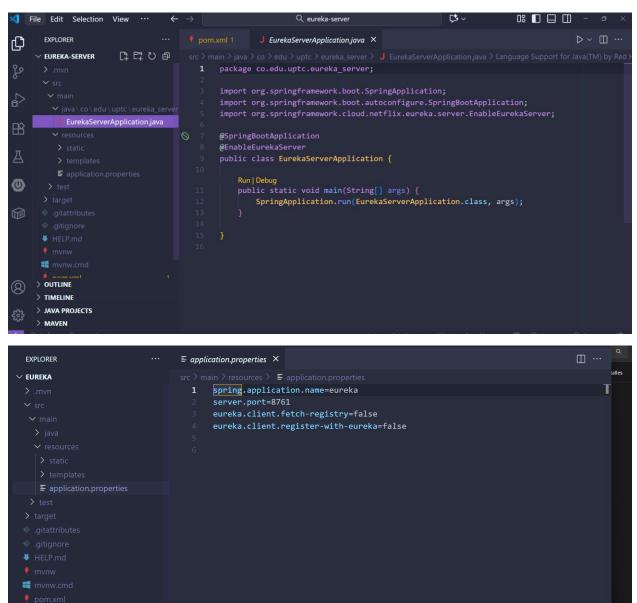
      N citativities
      19
```

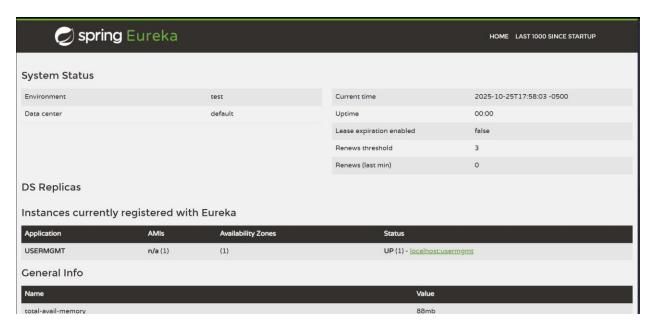
```
vusermgmt
vsrc
vmain
vjava\edu\uptc\swii\userm...
vservice
vserwignt
vserwignt
vserwignt
vjava\edu\uptc\swii\userm...
vservice
vserwignt
vserwign
```

```
∨ DDD
               中の甘む
                                    spring:
                                       cloud:
                                         config:
                                               name: microservices-config
                                               uri: http://localhost:8888/
                                             username: config_user
                                               password: config_user
                              10 rabbitmq:
                                       host: localhost
                                          port: 5672
virtual-host: /
                                     username: guest
    ≡ application.properti... 1, M
                                           password: guest
     ≡ application.yml 4, U
                                           active: DEV
                                        data:
                                          mongodb:
                                               database: Microservice
> OUTLINE
                                               repositories:
> TIMELINE
                                                   type: auto
> JAVA PROJECTS
                                                uri: mongodb://admin:UPTC2024@localhost:27017/Microservice?authSource=admin
> MAVEN
```

Desarrollo TALLER

Inicie un servidor de Eureka como se observó en pasados talleres





2 PUNTO

Cree la base de datos denominada "microservice" y las tablas correspondientes en MongoDB



3 PUNTO

CON ESTAS CLASES EL MICROSERVICIO PERSISTE EN MONGO DB

```
∂RestController
                                    PRequestMapping("/users")
                                    public class UserMgmtEndpoint {
                                       @Autowired
                                       private UserMgmtService userMgmtService;
                                       @Value("${message}")
                                       private String message;
                                       @RequestMapping(method = RequestMethod.GET, produces = "application/json")
                                       public String welcome() {
                                       @RequestMapping(value = "/{userId}", method = RequestMethod.GET, produces = "application/")
     ≡ application.properti... 1, M
                                       public User findUserById(@PathVariable("userId") String userId) {
                                          User user = userMgmtService.findByUserId(userId);
 OUTLINE
 TIMELINE
 JAVA PROJECTS
             中に甘む
DD
                                  import org.springframework.beans.factory.annotation.Autowired;
 ∨ main
                                  import edu.uptc.swii.usermgmt.domain.User;
                                  import edu.uptc.swii.usermgmt.rest.UserRepository;
                                  @Service
                                  public class UserMgmtServiceImpl implements UserMgmtService {
                                      @Autowired
                                      UserRepository userRepo;
                                          userRepo.save(user);
  ≡ application.properti... 1, M
UTLINE
                                      @Override
                                      public User findByUserId(String userId) {
IMELINE
                                          return userRepo.findByUserId(userId);
AVA PROJECTS
                                  ockér-compose.ymi ічі
                                                          日日ひ日
 ∨ DDD
                                      package edu.uptc.swii.usermgmt.rest;
                                        import org.springframework.data.mongodb.repository.MongoRepository;
                                       import org.springframework.data.mongodb.repository.Query;
                                       import edu.uptc.swii.usermgmt.domain.User;
                                       public interface UserRepository extends MongoRepository<User, String> {
       UserRepository.java
                                           @Query("{ 'userId' : ?0 }")
                                           public User findByUserId(String userId);
      ≡ application.properti... 1, M
```

4 PUNTO

Valide la configuración de RabbitMq para que funcione bajo el puerto 5672.

Con esta configuración se logra que el RabbitMq funcione bajo el puerto 5672

```
rabbitmq:

image: rabbitmq:latest

container_name: rabbitmq

restart: always

ports:

- "5672:5672"

- "15672:15672"

environment:

RABBITMQ_DEFAULT_USER: rabbit

RABBITMQ_DEFAULT_PASS: rabbit
```

```
rabbitmq:
host: localhost
port: 5672
virtual-host: /
username: guest
password: guest
```

```
C:\Users\luise>netstat | findstr 5672
^C^C
C:\Users\luise>netstat -ano | findstr 5672
         0.0.0.0:5672
                                 0.0.0.0:0
                                                         LISTENING
                                                                          11248
  TCP
         0.0.0.0:15672
                                 0.0.0.0:0
                                                         LISTENING
                                                                          11248
         [::]:5672
  TCP
                                 [::]:0
                                                         LISTENING
                                                                          11248
         [::]:15672
                                 [::]:0
                                                                          11248
  TCP
                                                         LISTENING
         [::1]:5672
[::1]:15672
                                 [::]:0
                                                                          14324
  TCP
                                                         LISTENING
                                 [::]:0
  TCP
                                                         LISTENING
                                                                          14324
C:\Users\luise>tasklist | findstr 14324
                              14324 Console
wslrelay.exe
                                                               10
                                                                      2.768 KB
C:\Users\luise>tasklist | findstr 11248
com.docker.backend.exe
                              11248 Console
                                                               10
                                                                    126.700 KB
```

5 PUNTO

Pruebe que la aplicación trabaja correctamente por medio de postman a los endpoints expuestos por la aplicación.

