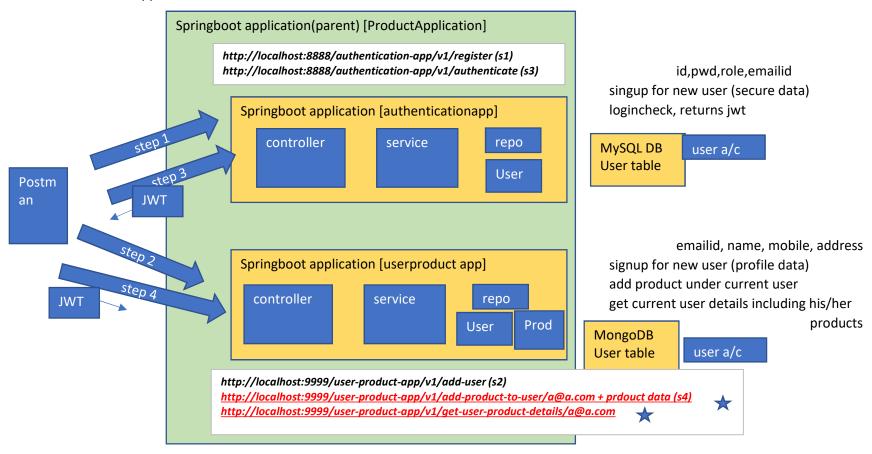
gmail	BE			
u1		authentication	email pwd pwd histo recovery o	
		inbox app	mails	u1 List <mails></mails>
		sent app	mails	u1 List <sent></sent>
Ecommerce	Be	Authentication	u1	
		Orderhistory	u1	

make both applications as child applications under a parent application run these applications as microservices



Here, prodcutapplication is parent it holds other two applications as child applications userproduct authentication

For Step1

Postman/FE / client application needs to send User data acconding to User model of authentication application



For Step 2

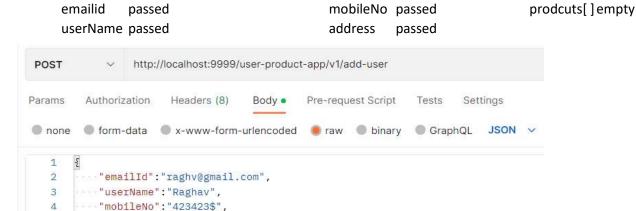
5

6

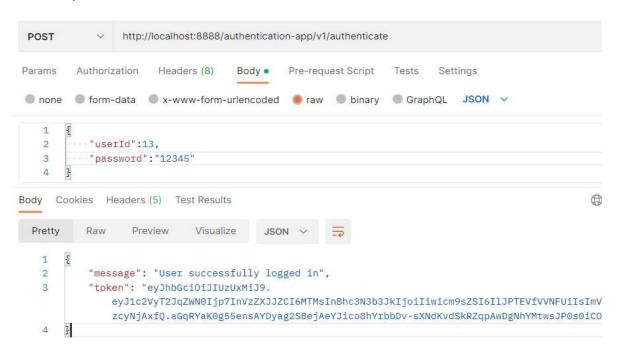
--- "address": "Mumbai"

Postman/FE / client application needs to send User data acconding to User model of data application

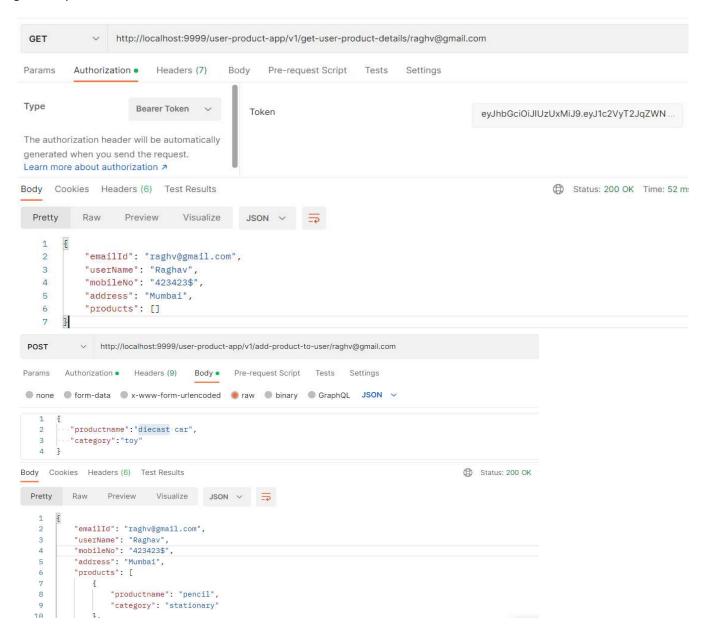
emailid passed mobileNo passed products[]

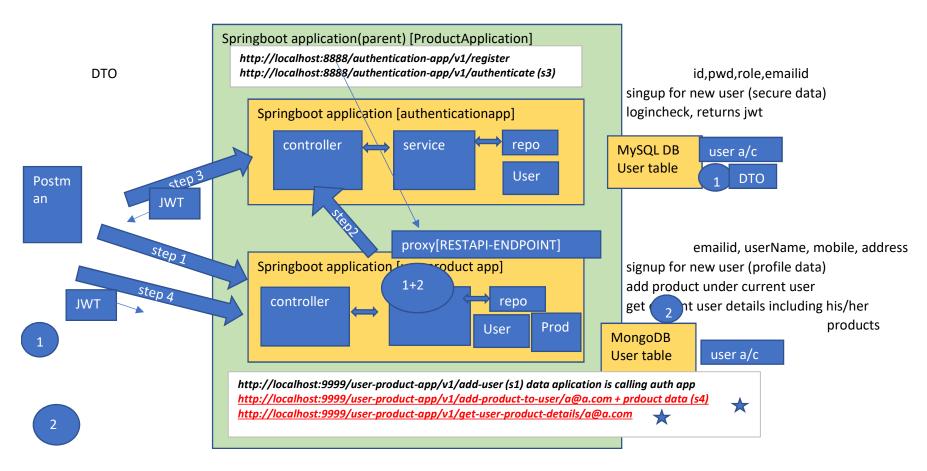


For Step3
Postman/FE / client application needs to send login/authentication data userId password



For Step 4 try to access intercepted url/resource of application2 get user product details

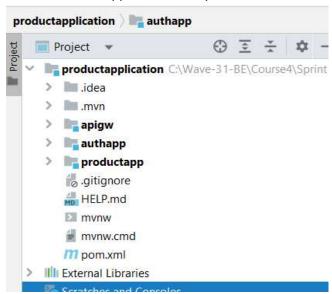




Combined data model class DTO model class

Steps to add Feign client in data app to communicate with auth application

#### Step 1 Make sure both applications ready



## Productapp ---> authapp

productapp microservice is calling authap microservice with the help of feignclient tool on produtapplication

# Step 2 add required dependency in productapp feignclient



# Step 3 Create proxy interface

Below is the RESTAPI endpoint used to add user in authentication application

```
part of authentication application, will be called from product application

application

application

application

application

application

be called from product application

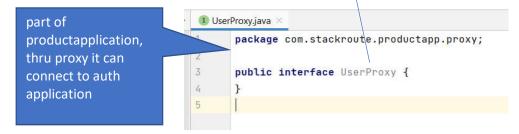
application

application

continuous product application

continuous product
```

### create proxy in productapp for above RESIAPI endpoint



# Step 4 Create require model classes



#### Step 5 Modify controller to capture commonUser type of data in signup request

```
// to add user
// http://localhost:9999/user-product-app/v1/add-user [POST]

@PostMapping("/add-user1")
public ResponseEntity<?> addUser1(@RequestBody CommonUser commonUser){
    return new ResponseEntity<>(userProductService.addUser1(commonUser), HttpStatus.OK);
}
```

#### Step 6 modify service layer

```
12
_ 13
          public class UserProductServiceImpl implements UserProductService{
              4 usages
 14
              @Autowired
 15
               private UserProductRepository userProductRepository;
 16
 17
              @Override
 18 1
               public User addUser1(CommonUser commonUser) {
                  // keep logic to seperate user data for data application
 19
                  // for auth application
 20
 21
                  // send auth user data to auth application thru proxy
 22
 23
              1
```

# Step 7 Goback to proxy interface

Note: makesure auth application has name property configured

spring.application.name=authentication-service

#### Step 8 Modiy service layer

define logic to add data application user data into mongo

to send auth application user data to auth application

```
23
             @Override
24 0 @
             public User addUser1(CommonUser commonUser) {
25
                 // keep logic to seperate user data for data application
26
                 // for auth application
                 // send auth user data to auth application thru proxy
28
                 // commonUser has data application user data, auth application user data
29
                 // get only data application user details -> repository
30
31
                 // craete dto object, fill data from commonuser object
32
                 UserDTO userDto = new UserDTO();
                 userDto.setEmailId(commonUser.getEmailId());
34
                 userDto.setPassword(commonUser.getPassword());
35
                 ResponseEntity<?> response = userProxy.sendUserObjectToAuthApp(userDto);
36
                 // above line is for connecting with another microservice using Feign client
37
                 System.out.println(response);
38
                 // create data application user object, fill details from common user object
39
                 User user = new User(commonUser.getEmailId(), commonUser.getUserName(),
                         commonUser.getMobileNo(),commonUser.getAddress(),new ArrayList());
40
41
                 return userProductRepository.insert(user);
```

### Step 9 Enable feignclient on application

# How to test run application

