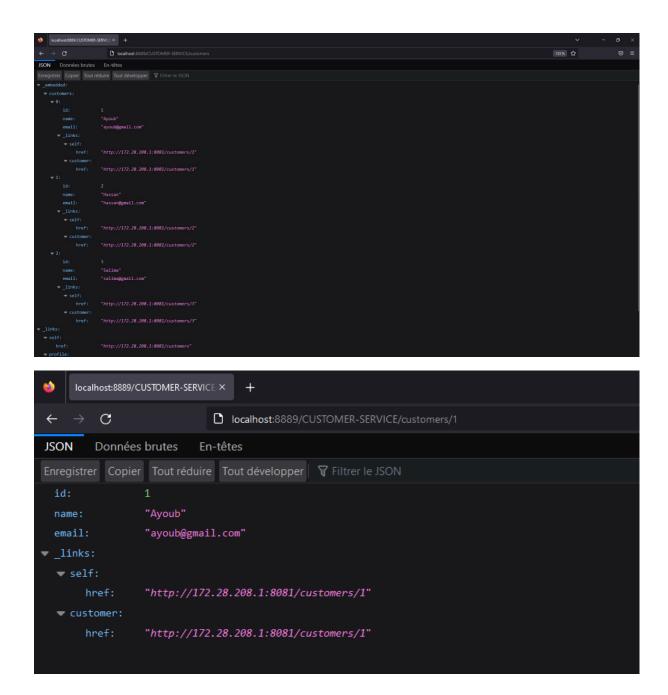
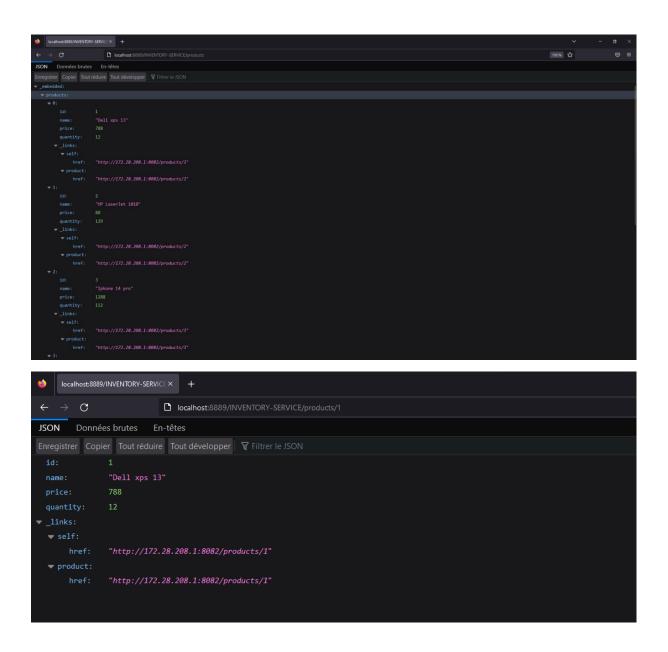
NOM ET PRÉNOM : KHYATI AYOUB GROUPE: 5IIR G2

Architectures Micro-services avec Spring Cloud

1.Créer le micro-service customer-service qui permet de gérer les clients



2. Créer le micro-service inventory-service qui permet de gérer les produits



3. Créer la Gateway Spring cloud Gateway avec une Configuration statique du système de routage

```
@Bean
DiscoveryClientRouteDefinitionLocator definitionLocator(
ReactiveDiscoveryClient rdc,
DiscoveryLocatorProperties properties

| Comparison of the content of the conte
```

```
server.port=8889
spring.application.name=gateway-service
spring.cloud.discovery.enabled=true
eureka.instance.preferIpAddress=true

spring.main.web-application-type=reactive
#spring.main.allow-bean-definition-overriding=true

#spring.main.allow-bean-definition-overriding=true
```

Application	AMIs	Availability Zones	Status
BILLING-SERVICE	n/a (1)	(1)	UP (1) - localhost:billing-service:8083
CUSTOMER-SERVICE	n/a (1)	(1)	UP (1) - localhost:customer-service:8081
GATEWAY-SERVICE	n/a (1)	(1)	UP (1) - DESKTOP-QLBHPT9:gateway-service:8889
INVENTORY-SERVICE	n/a (1)	(1)	UP (1) - DESKTOP-QLBHPT9:inventory-service:8082
UNKNOWN	n/a (1)	(1)	UP (1) - <u>DESKTOP-QLBHPT9:8761</u>

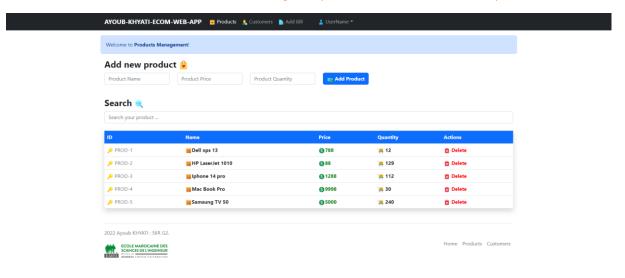
5. Faire une configuration dynamique des routes de la gateway

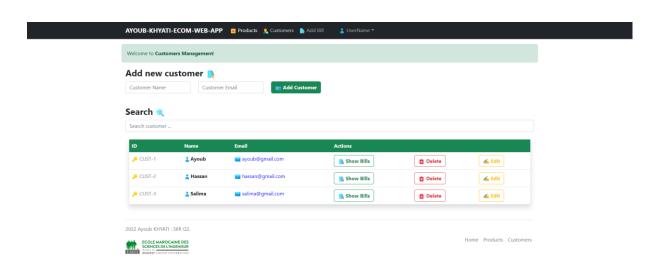
6. Créer le service de facturation Billing-Service en utilisant Open Feign

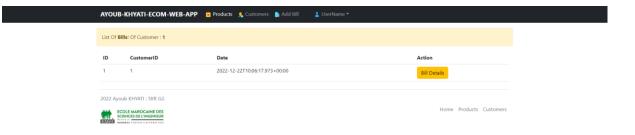
http://localhost:8889/BILLING-SERVICE/bills

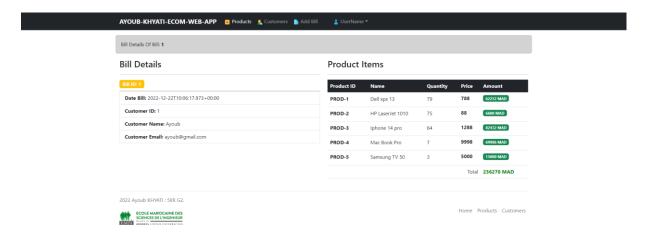
http://localhost:8889/BILLING-SERVICE/fullBill/1

7. Créer un client Web Angular (Clients, Produits, Factures)

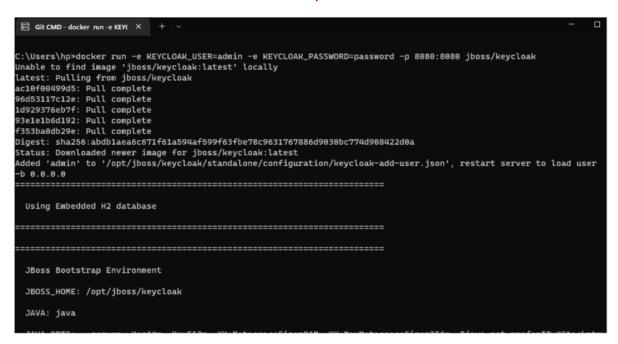


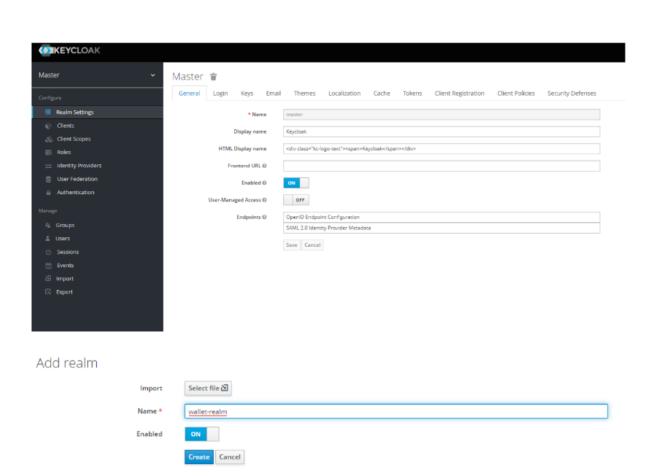


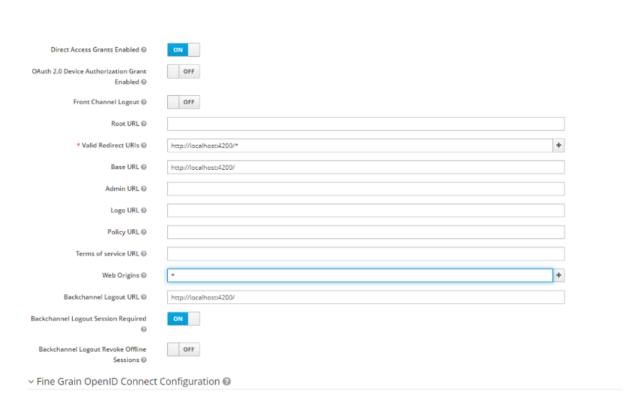




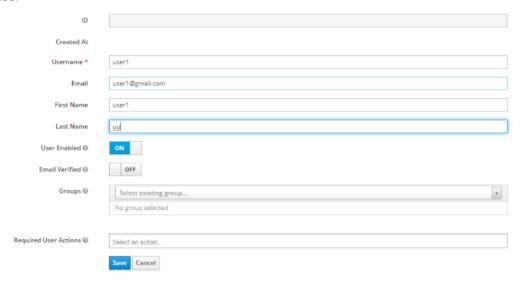
- 8. Déployer le serveur keycloak :
 - Créer un Realm
 - Créer un client à sécuriser
 - Créer des utilisateurs
 - Créer des rôles
- Affecter les rôles aux utilisateurs
- Tester les différents modes d'authentification avec Postman en montrant les contenus de Access-Token, Refresh Token

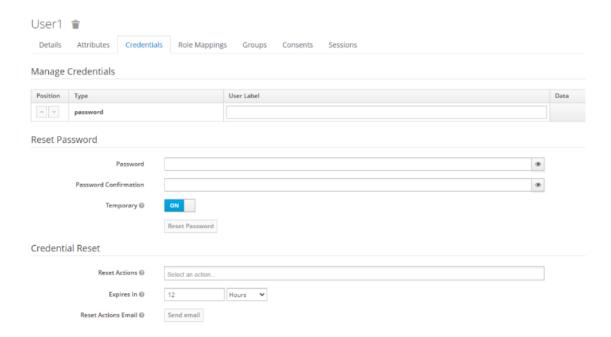




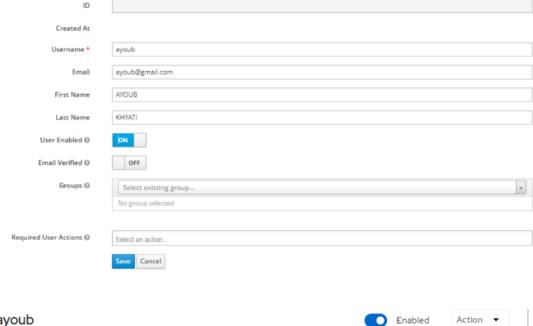


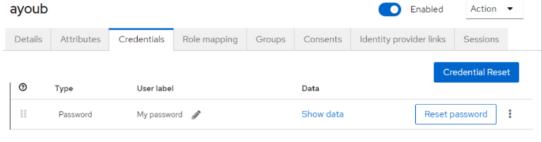
Add user





Add user

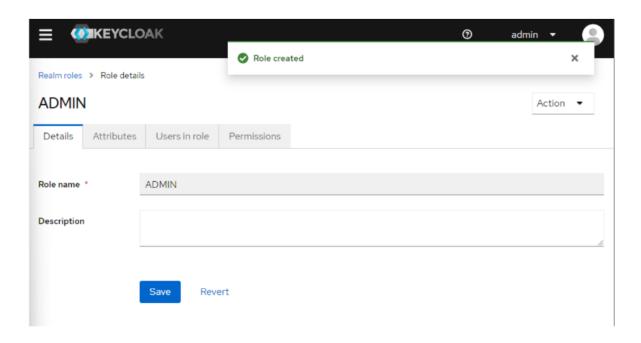


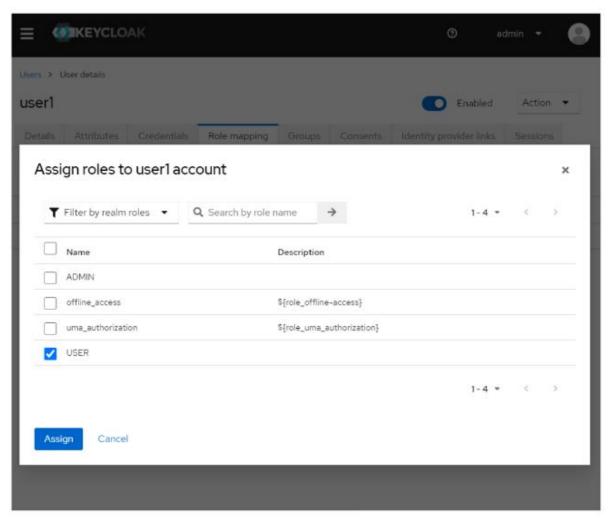


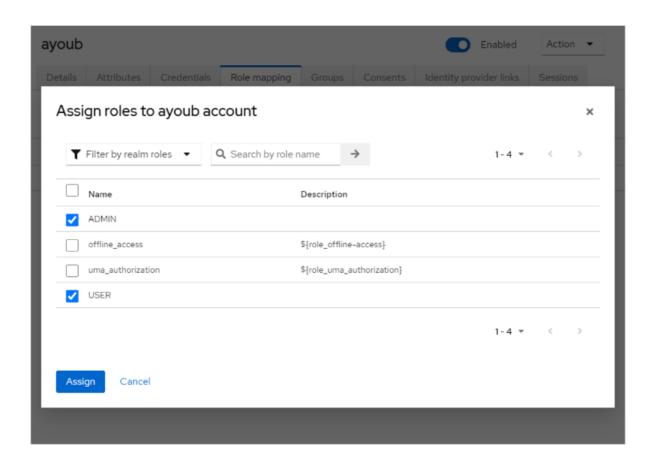
Realm roles > Create role

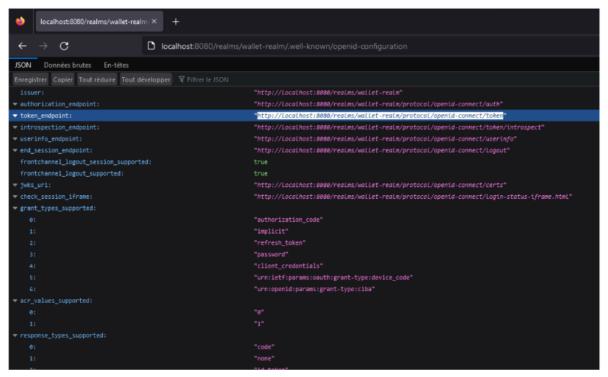
Create role

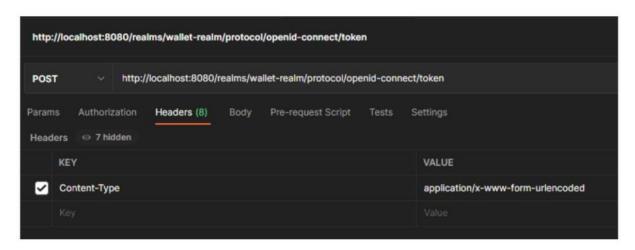


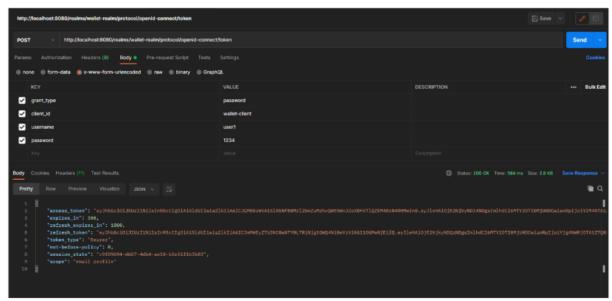














Encoded PASTE A TOKEN HERE

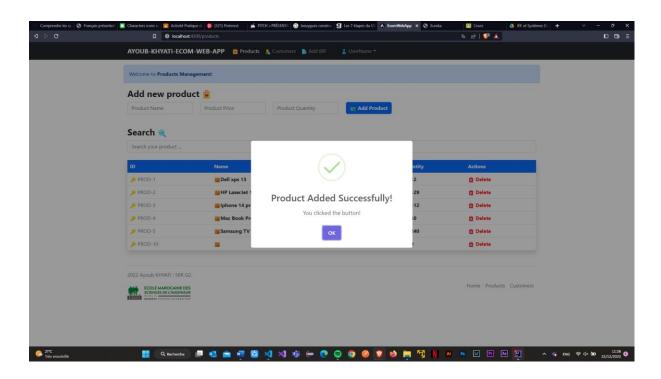
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Decoded EDAT THE PAYLOAD AND SECRET

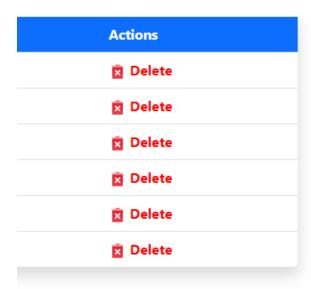
10. Ajouter des Fonctionnalités supplémentaires de votre choix

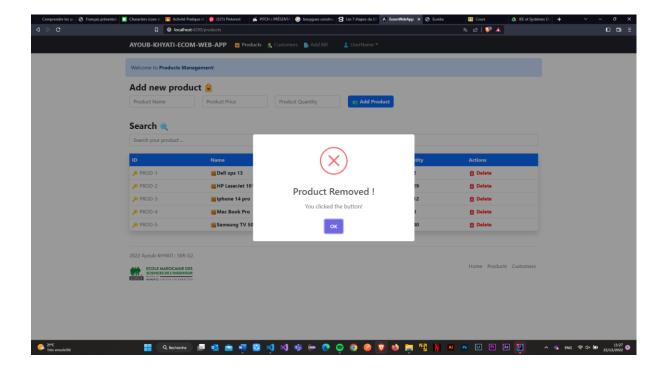
ADD PRODUCT



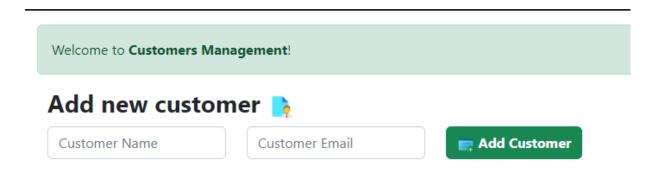


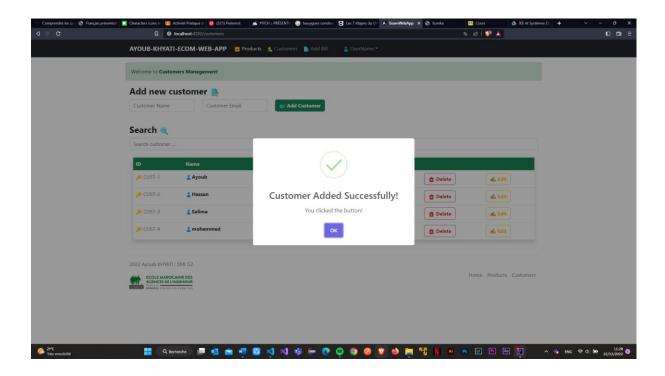
DELETE PRODUCT



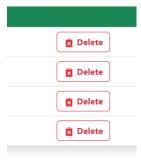


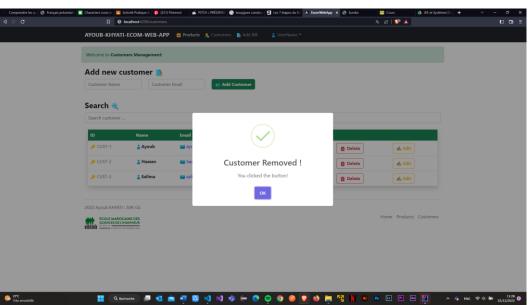
ADD CUSTOMER





DELETE CUSTOMER





ADD BILL

