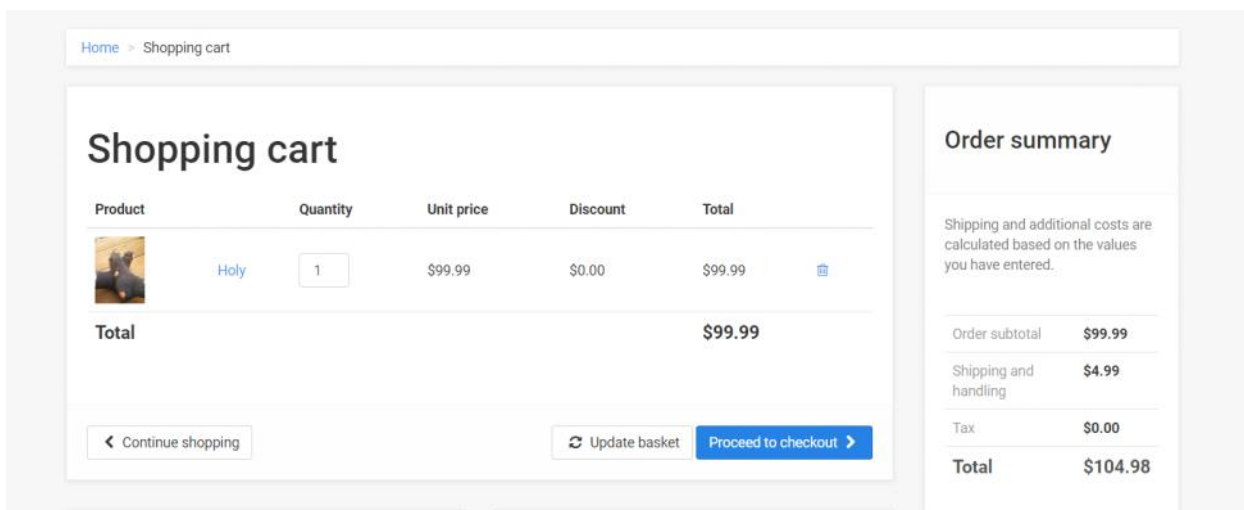
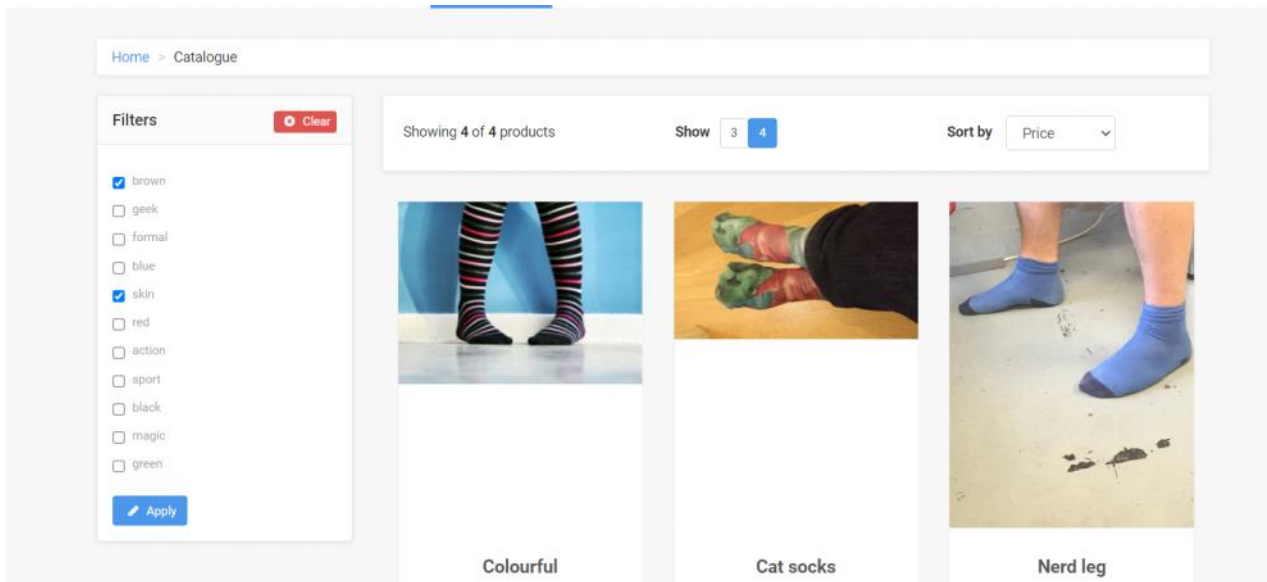
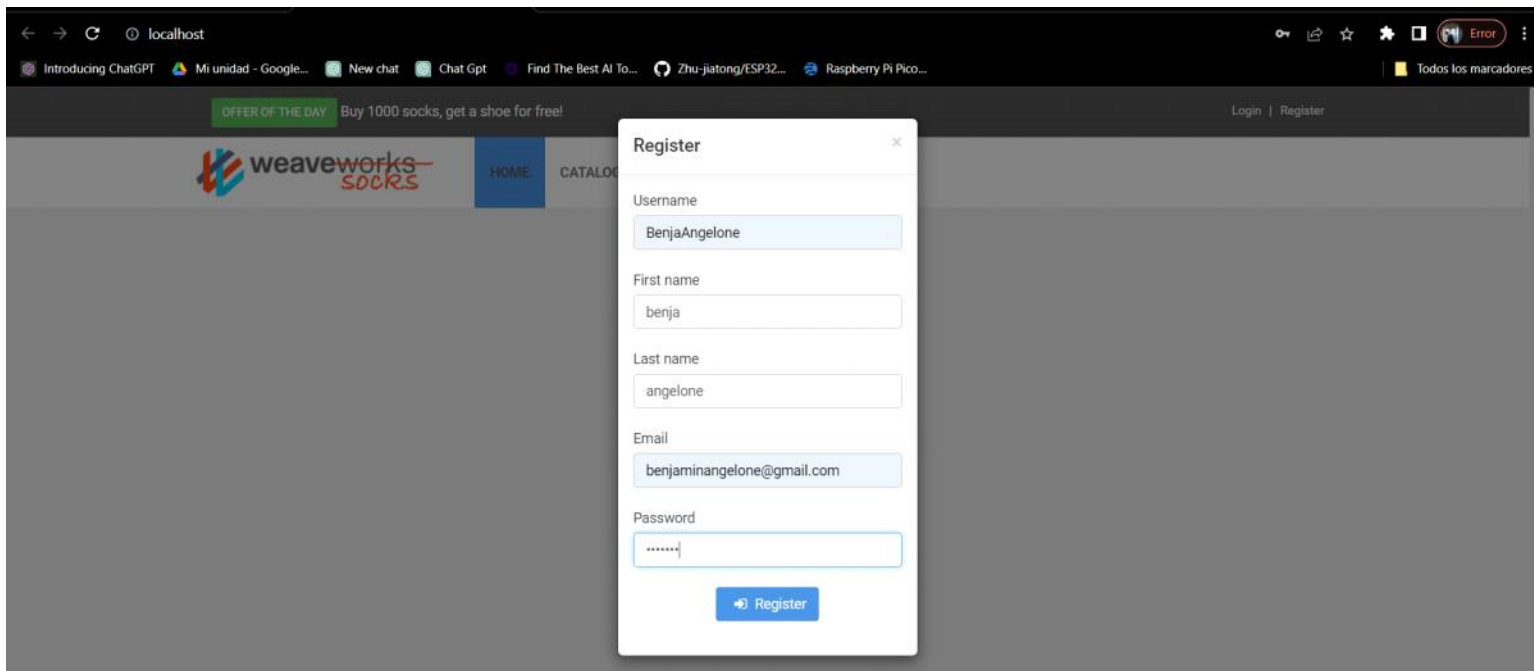


Practico 4

lunes, 16 de octubre de 2023 14:46



Investigación de componentes:

Contenedores creados:

front-end: Punto de entrada para la interfaz de usuario.

user: Gestión de usuarios y autenticación.

edge-router: Encargado de enrutar las peticiones hacia los servicios correspondientes.

Clonar repositorios:

Se están clonando diferentes repositorios, cada uno destinado a un servicio específico. Esto sigue el

enfoque de microservicios, donde cada servicio tiene su propio repositorio para facilitar la gestión y la implementación independiente.

Razón para usar repositorios separados:
A favor:

Desacoplamiento: Cada microservicio es independiente y se puede desarrollar, implementar y escalar por separado.

Gestión de versiones: Facilita el control de versiones individual para cada servicio.

Especialización: Equipos diferentes pueden trabajar en servicios específicos sin interferir entre sí.

En contra:

Complejidad: Puede aumentar la complejidad de la gestión y la coordinación entre microservicios.

3. API Gateway:

El contenedor edge-router probablemente funciona como un API Gateway, enrutando las peticiones a los servicios correspondientes.

4. Comandos curl:

```
C:\Users\Benja\socks-demo\microservices-demo>curl http://localhost/customers
{"_embedded":{"customer":[{"firstName":"Eve", "lastName":"Berger", "username":"Eve_Berger", "id":"57a98d98e4b00679b4a830af", "_links":{"addresses":{"href":"http://user/customers/57a98d98e4b00679b4a830af/addresses"}, "cards":{"href":"http://user/customers/57a98d98e4b00679b4a830af/cards"}, "customer":{"href":"http://user/customers/57a98d98e4b00679b4a830af"}}, {"firstName":"User", "lastName":"Name", "username":"user", "id":"57a98d98e4b00679b4a830b2", "_links":{"addresses":{"href":"http://user/customers/57a98d98e4b00679b4a830b2/addresses"}, "cards":{"href":"http://user/customers/57a98d98e4b00679b4a830b2/cards"}, "customer":{"href":"http://user/customers/57a98d98e4b00679b4a830b2"}}, {"firstName":"User1", "lastName":"Name1", "username":"user1", "id":"57a98d98e4b00679b4a830b5", "_links":{"addresses":{"href":"http://user/customers/57a98d98e4b00679b4a830b5/addresses"}, "cards":{"href":"http://user/customers/57a98d98e4b00679b4a830b5/cards"}, "customer":{"href":"http://user/customers/57a98d98e4b00679b4a830b5"}}, {"firstName":"ange", "lastName":"angelone", "username":"benja", "id":"652dd6a0ee11cb00016ecc21", "_links":{"addresses":{"href":"http://user/customers/652dd6a0ee11cb00016ecc21/addresses"}, "cards":{"href":"http://user/customers/652dd6a0ee11cb00016ecc21/cards"}, "customer":{"href":"http://user/customers/652dd6a0ee11cb00016ecc21"}, "self":{"href":"http://user/customers/652dd6a0ee11cb00016ecc21"}]}]}]}
```

```
C:\Users\Benja\socks-demo\microservices-demo>curl http://localhost/catalogue
[{"id":"03fef6ac-1896-4ce8-bd69-b798f85c6e0b", "name":"Holy", "description":"Socks fit for a Messiah. You too can experience walking in water with these special edition beauties. Each hole is lovingly progglod to leave smooth edges. The only sock approved by a higher power.", "imageUrl":["/catalogue/images/holy_1.jpg"], "/catalogue/images/holy_2.jpg"], "price":99.99, "count":1, "tag":["action", "magic"]}, {"id":"3395a43e-2d88-40de-b95f-e00e1502085b", "name":"Colourful", "description":"proident occaecat irure et excepteur labore minim nisi amet irure", "imageUrl":["/catalogue/images/colourful_socks.jpg"], "/catalogue/images/colourful_socks.jpg"], "price":18, "count":438, "tag":["brown", "blue"]}, {"id":"510a0d7e-8e83-4193-b483-e27e09ddc34d", "name":"SuperSport XL", "description":"Ready for action. Engineers: be ready to smash that next bug! Be ready, with these super-action-sport-masterpieces. This particular engineer was chased away from the office with a stick.", "imageUrl":["/catalogue/images/puma_1.jpg"], "/catalogue/images/puma_2.jpg"], "price":15, "count":820, "tag":["sport", "formal", "black"]}, {"id":"808a2de1-1aaa-4c25-a9b9-6612e8f29a38", "name":"Crossed", "description":"A mature sock, crossed, with an air of nonchalance.", "imageUrl":["/catalogue/images/cross_1.jpg"], "/catalogue/images/cross_2.jpg"], "price":17.32, "count":738, "tag":["blue", "action", "red", "formal"]}, {"id":"819e1fbf-8b7e-4f6d-811f-693534916a8b", "name":"Figueroa", "description":"enim officia aliqua excepteur esse deserunt quis aliquip nostrud anim", "imageUrl":["/catalogue/images/WAT.jpg"], "/catalogue/images/WAT2.jpg"], "price":14, "count":808, "tag":["green", "formal", "blue"]}, {"id":"837ab141-399e-4clf-9abc-bace40296bac", "name":"Cat socks", "description":"consequat amet cupidatat minim laborum tempor elit ex consequat in", "imageUrl":["/catalogue/images/catsocks.jpg"], "/catalogue/images/catsocks2.jpg"], "price":15, "count":175, "tag":["brown", "formal", "green"]}, {"id":"a0a4f044-b040-410d-8ead-4de0446aec7e", "name":"Nerd leg", "description":"For all those leg lovers out there. A perfect example of a swivel chair trained calf. Meticulously trained on a diet of sitting and Pina Colodas. Phwarr...", "imageUrl":["/catalogue/images/bit_of_leg_1.jpg"], "/catalogue/images/bit_of_leg_2.jpg"], "price":7.99, "count":115, "tag":["blue", "skin"]}, {"id":"d3588630-ad8e-49df-bbd7-3167f7efb246", "name":"YouTube sock", "description":"We were not paid to sell this sock. It's just a bit geeky.", "imageUrl":["/catalogue/images/youtube_1.jpg"], "/catalogue/images/youtube_2.jpg"], "price":10.99, "count":801, "tag":["formal", "geek"]}, {"id":"zzz4f044-b040-410d-8ead-4de0446aec7e", "name":"Classic", "description":"Keep it simple.", "imageUrl":["/catalogue/images/classic.jpg"], "/catalogue/images/classic2.jpg"], "price":12, "count":127, "tag":["brown", "green"]}]
```

```
C:\Users\Benja\socks-demo\microservices-demo>curl http://localhost/tags
{"tags":["brown", "geek", "formal", "blue", "skin", "red", "action", "sport", "black", "magic", "green"], "err":null}
```

```
C:\Users\Benja\socks-demo\microservices-demo>
```

Los contenedores que actuan en los curso son los siguientes:

```
2023-10-16 21:39:18 docker-compose-user-1 | ts=2023-10-17T00:39:18Z caller=middlewares.go:75 method=GetUsers id=
oll result=4 took=50.720049ms
2023-10-16 21:39:18 docker-compose-front-end-1 | GET /customers 200 161.951 ms - -
2023-10-16 21:39:39 docker-compose-front-end-1 | GET /tags 200 125.798 ms - -
2023-10-16 21:39:39 docker-compose-catalogue-1 | ts=2023-10-17T00:39:39Z caller=logging.go:74 method=Tags result=11 e
rr=null took=43.385328ms
2023-10-16 21:39:44 docker-compose-front-end-1 | GET /catalogue 200 66.252 ms - -
2023-10-16 21:39:44 docker-compose-catalogue-1 | ts=2023-10-17T00:39:44Z caller=logging.go:36 method=List tags= order
=id pageNum=1 pageSize=10 result=9 err=null took=52.074745ms
```

Persistencia de datos:

La persistencia de datos en los servicios de microservicios puede variar, pero generalmente se utiliza almacenamiento propio o bases de datos específicas para cada servicio.

6. Procesamiento de la cola de mensajes:

El componente encargado del procesamiento de la cola de mensajes no se menciona directamente en las instrucciones. Podría ser parte de alguno de los servicios clonados.

7. Interfaz de comunicación:

Los microservicios generalmente se comunican a través de una interfaz basada en HTTP/REST o en algunos casos, utilizando mensajería, como RabbitMQ o Kafka.