Aplicatia reprezinta ideea din spatele unui Online Shop.

Aceasta este structurata pe mai multe microservicii, astfel:

* Shopping cart service
* Orders service
* Items service
* Gateway service
* Eureka nameserver
* Spring cloud config server

Baza de date pentru shopping cart este compusa dintr-un singur table cu acelasi nume:

* Id\_shopping\_carts-bigint
* Checked-care verifica daca comanda a fost sau nu finalizata-tinyint

Items este compus din tabelele categories si products

Categories:

* Id\_categories-bigint
* Name-varchar(100)
* Description-varchar(100)

Products:

* Id\_products-bigint
* Name-varchar(100)
* Description-varhcar(100)
* Price-double
* Id\_categories-FK bigint

Baza de date Orders contine tabelele accounts, addresses, orders si users.

Accounts:

* Id\_accounts -bigint
* Card\_number -varchar(100)
* Secure\_code-varchar(3)
* Cardholder-varchar(100)
* Valid\_date-varchar(100)

Addresses:

* Id\_addresses-bigint
* Country-varchar(100)
* City-varchar(100)
* Street-varchar(100)
* Postal\_code-varchar(100)
* Details-varchar(100)

Users:

* Id\_users-bigint
* First\_name-varchar(100)
* Last\_name-varhcar(100)
* Email-varchar(100)
* Phone-varhcar(100)
* Birthdate-date
* Id\_addresses-FK bigint
* Id\_accounts-FK bigint

Orders:

* Id\_orders-bigint
* Id\_users-FK bigint
* Id\_shopping\_carts FK bigint
* Total\_price-double

Spring cloud config server ciiteste din fisierele yml aferente fiecarui microserviciu proprietatile necesare pentru a fi rulate.

Ca si functionalitati avem urmatoarele:

* Get items->returneaza o lista cu toate produsele
* Add item to shopping cart->adauga un produs in cosul de cumparaturi
* View shopping cart->afiseaza produsele din shopping cart
* Order-> finalizarea unei comenzi cu anumite produse
* See ordered items->Vizualizarea produsele comandate