# Manual de Técnico

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Nombre del sistema: E commerce GT

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Ruta Netlify: <a href="https://prismatic-frangipane-c2bb28.netlify.app">https://prismatic-frangipane-c2bb28.netlify.app</a>

Ruta Ngrok: <a href="https://jade-flinty-dayton.ngrok-free.dev">https://jade-flinty-dayton.ngrok-free.dev</a>

#### Introducción

El sistema se desarrolla con un cliente en Angular, un Servidor en Spring Boot y una base de datos en PostgresQL. El sistema permite la compra y venta de productos por parte de usuarios, manejo de paquetes y pagos únicamente con tarjeta, además de la calificación y comentarios a productos del catálogo.

# Objetivos

- Administrar la venta y compra de productos.
- Generar ganancias a partir de comisiones en ventas de productos.
- Mantener un entorno seguro y confiable.

### Alcance

Incluye administración de usuarios de tipo común, administradores, logística y moderadores, administración de publicación de productos, calificación, comentarios y sanciones a usuarios y compra con tarjeta.

## Arquitectura

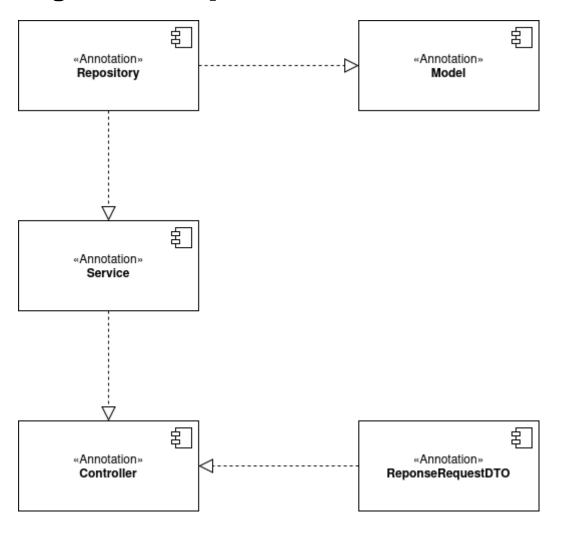
Cliente: Angular: Angular CLI: 18.2.6

Servidor: Spring Boot 3.5.6, Java 22

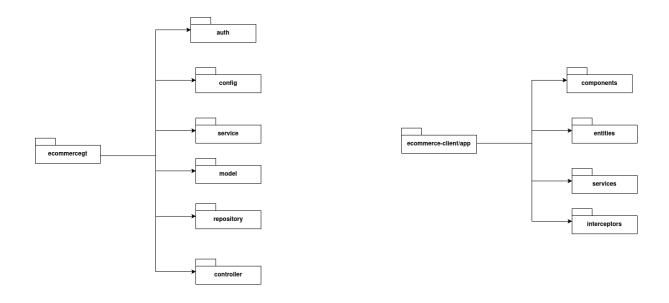
Frontend: Bootstrap 5, HTML5, Typescript

Base de datos: Postgresql 18.0

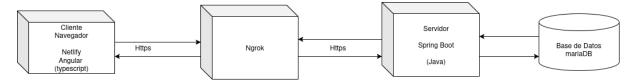
# Diagrama de Componentes



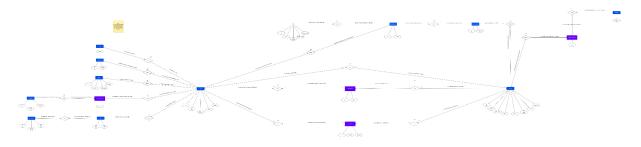
## Diagrama de Paquetes



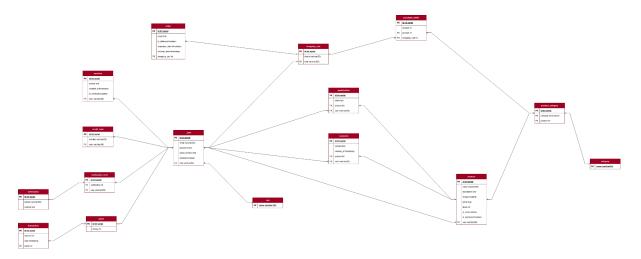
# Diagrama de Despliegue



# Diagrama de Entidad Relación Notación Peter Chen



### Diagrama de Tablas UML



#### DDL

```
drop database if exists e_commerce_gt;
create database e_commerce_gt;
create table role
 name varchar(50) primary key
create table _user
      serial primary key,
 email varchar(50) unique not null,
 password text
                      not null,
 name varchar(50)
                        not null,
                        not null default true,
 enabled boolean
 role
       varchar(50)
                      not null,
 constraint fk_role_in_user
   foreign key (role)
     references role (name)
     on delete cascade
     on update cascade
create table wallet
```

```
id serial primary key,
 money float
                   not null,
 _user varchar(50) unique not null,
 constraint fk_user_in_wallet
   foreign key (_user)
     references _user (email)
     on delete cascade
     on update cascade
create table transaction
 id serial primary key,
 amount float not null,
 date timestamp not null default current_timestamp,
 wallet int not null,
 constraint fk_wallet_in_transaction
   foreign key (wallet)
     references wallet (id)
     on delete cascade
     on update cascade
create table notification
      serial primary key,
 sender varchar(50) not null,
 content text not null,
 subject text not null,
 _user varchar(50) not null,
 constraint fk_user_int_notification
   foreign key (_user)
   references user(email)
   on delete cascade
   on update cascade
create table credit_card
 id serial primary key,
 number varchar(20) not null,
 _user varchar(50) not null,
```

```
constraint fk_user_in_credit_card
   foreign key (_user)
     references user (email)
     on delete cascade
     on update cascade,
 constraint unique_number_and_user
   unique (number, user)
create table sanction
 id
       serial primary key,
 reason text
                 not null,
 created_at timestamp not null default current_timestamp,
 end_at timestamp not null,
         varchar(50) not null,
 _user
 constraint fk user in sanction
   foreign key (_user)
     references _user (email)
     on delete cascade
     on update cascade
create table product
       serial primary key,
 name varchar(50) not null,
 description text not null,
 image_url text not null,
 price float not null,
 stock int not null,
 is new boolean not null,
 is_approved boolean not null default false,
 is revised boolean not null default false,
 user varchar(50) not null,
 constraint fk user in product
   foreign key (_user)
     references user (email)
     on delete cascade
     on update cascade
);
create table comment
```

```
serial primary key,
                  not null,
 created_at timestamp default current_timestamp,
 product int not null,
 _user
         varchar(50) not null,
 constraint fk_product_int_comment
   foreign key (product)
     references product (id)
     on delete cascade
     on update cascade,
 constraint fk_user_in_comment
   foreign key (_user)
     references user (email)
     on delete restrict
     on update cascade
create table qualification
      serial primary key,
 starts int not null,
 product int not null,
 _user varchar(50) not null unique,
 constraint fk_product_in_qualification
   foreign key (product)
     references product (id)
     on delete cascade
     on update cascade,
 constraint fk_user_in_qualification
   foreign key (_user)
     references _user (email)
     on delete restrict
     on update cascade,
 constraint unique product user
   unique (product, _user)
);
create table category
 name varchar(50) primary key
```

```
create table product_category
      serial primary key,
 category varchar(50) not null,
 product int not null,
 constraint fk_category_in_product_category
   foreign key (category)
     references category (name)
     on delete cascade
     on update cascade,
 constraint fk_product_in_product_category
   foreign key (product)
     references product (id)
     on delete cascade
     on update cascade
create table shopping_cart
 id serial primary key,
 status boolean not null default true,
 _user varchar(50) not null,
 constraint fk_user_in_shopping_cart
   foreign key (_user)
     references user (email)
     on delete cascade
     on update cascade
create table purchase_detail
 id
        serial primary key,
 amount int not null,
 product int not null.
 shopping_cart int not null,
 constraint fk_product_in_purchase_detail
   foreign key (product)
     references product (id)
     on delete cascade
     on update cascade,
 constraint fk_shopping_cart_in_purchase_detail
   foreign key (shopping_cart)
```

```
references shopping_cart (id)
     on delete cascade
     on update cascade,
 constraint unique_product_shopping_cart
   unique (shopping_cart, product)
create table package
         serial primary key,
 id
 total
          float
                                         not null,
 is_delivered boolean default false
                                                    not null,
 is revised boolean default false
                                                    not null,
 departure_date timestamp default current_timestamp
                                                                not null,
 delivery_date timestamp default (current_timestamp + interval '5 days') not
null,
 deliver_at timestamp null,
 shopping_cart int
                                              not null,
 constraint fk_shopping_cart_in_package
   foreign key (shopping_cart)
     references shopping_cart (id)
     on delete cascade
     on update cascade
```

## Seguridad

- Validación de formularios.
- Autenticación con sesiones mediante JWT.
- Hash de contraseñas.