Online Shopping Platform (Final Report)

Submitted by :
Akram Khan - 180050006
Siddhartha S Dular - 180050103
Aman Kashyap - 190050012
Sanjana Burman - 190050106

About:

We build an E-commerce website where the retailers can list their products, and customers can buy those products online.

- ## Benefits -
    1) Convenient and time saving platform for both customers and sellers who wish to buy and sell items respectively anywhere/ anytime.
    2) Increased advertising and marketing of retailers.

- ## Relevant concepts in the DB course -
    Design Approaches, Normalisation, Schema diagram and ER-diagram, SQL queries, Indexing, DDL.

- ## How to install and RUN:
    - Clone the git repo
      $ git clone https://github.com/amplify-tech/online-shopping-platform.git
    - Create virtualenv first
      $ virtualenv venv
    - Activate virtualenv
      $ source venv/bin/activate
    - Install requirement
      $ pip install -r requirement.txt

    - Then run the django project as
      $ python3 manage.py makemigrations
      $ python3 manage.py migrate
      $ python3 manage.py runserver

      (take care of database parameters in settings.py file)

Requirements Specifications:

Software Requirements:

        IDE: Visual Studio Code / sublime-text

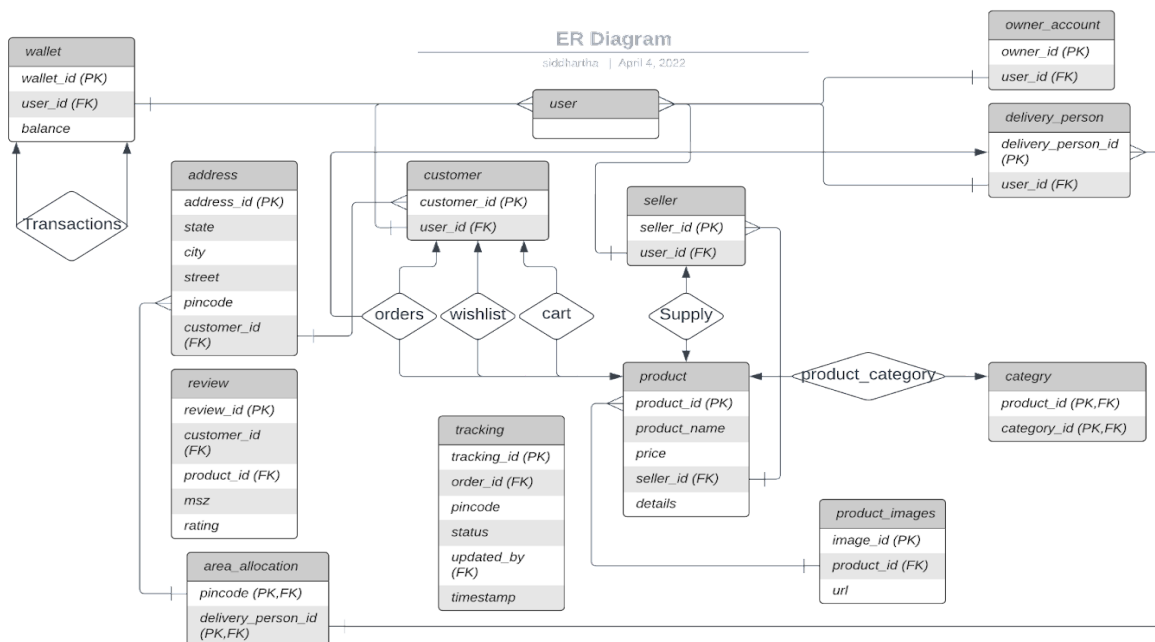   Web Browser - Firefox 50 or later, Google Chrome- 60 or later

        Database support - Postgres 9
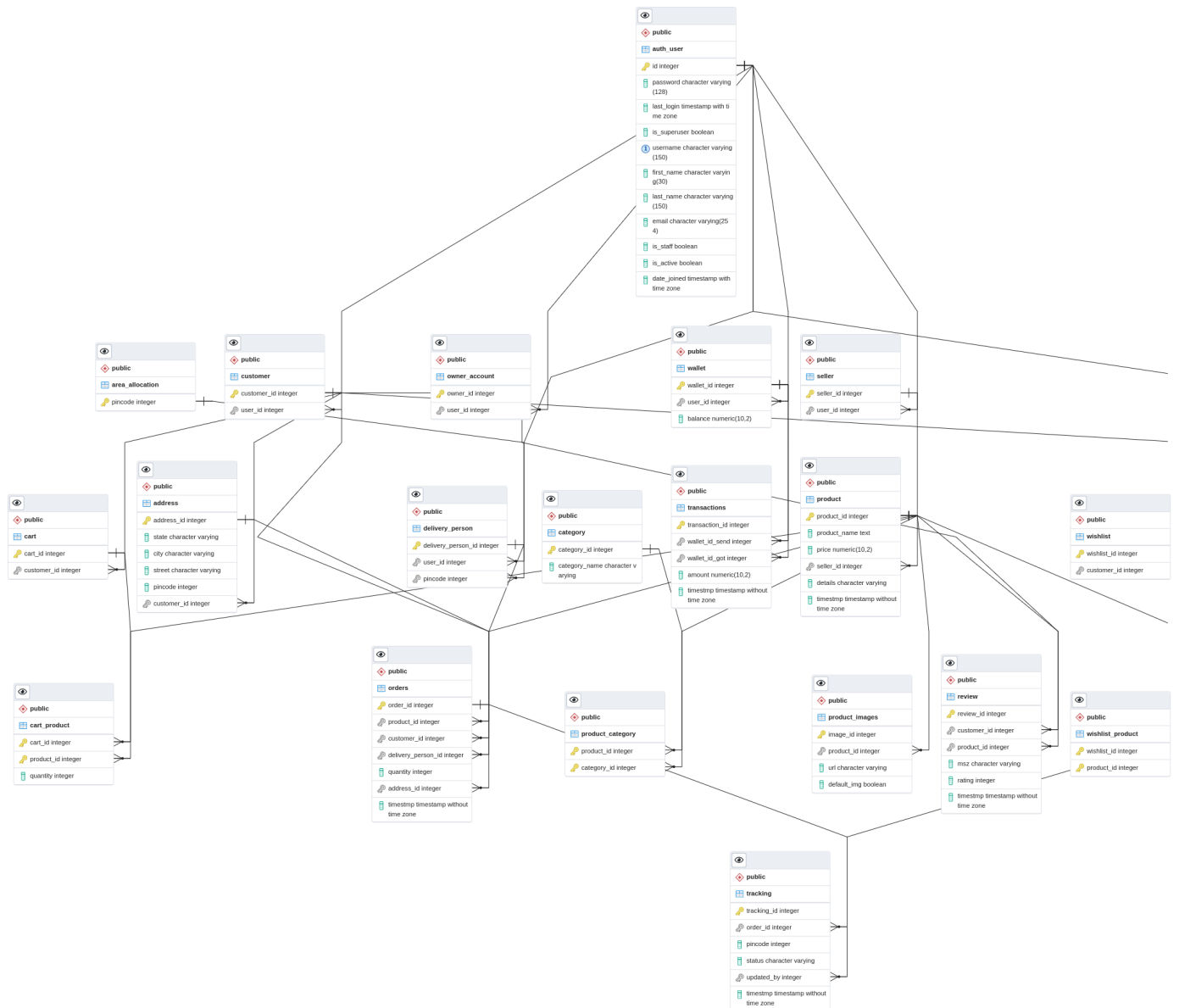
        Operating System - Ubuntu / windows

Framework used: Django

Database used : Postgres

ER Diagram:

Schema:

auth_user
- id integer
- password character varying (128)
- last_login timestamp with time zone
- is_superuser boolean
- username character varying (150)
- first_name character varying(30)
- last_name character varying (150)
- email character varying(254)
- is_staff boolean
- is_active boolean
- date_joined timestamp with time zone

area_allocation (public)
- pincode integer

customer (public)
- customer_id integer
- user_id integer

owner_account (public)
- owner_id integer
- user_id integer

wallet (public)
- wallet_id integer
- user_id integer
- balance numeric(10,2)

seller (public)
- seller_id integer
- user_id integer

cart (public)
- cart_id integer
- customer_id integer

address (public)
- address_id integer
- state character varying
- city character varying
- street character varying
- pincode integer
- customer_id integer

delivery_person (public)
- delivery_person_id integer
- user_id integer
- pincode integer

category (public)
- category_id integer
- category_name character varying

transactions (public)
- transaction_id integer
- wallet_id_send integer
- wallet_id_got integer
- amount numeric(10,2)
- timestmp timestamp without time zone

product (public)
- product_id integer
- product_name text
- price numeric(10,2)
- seller_id integer
- details character varying
- timestmp timestamp without time zone

wishlist (public)
- wishlist_id integer
- customer_id integer

cart_product (public)
- cart_id integer
- product_id integer
- quantity integer

orders (public)
- order_id integer
- product_id integer
- customer_id integer
- delivery_person_id integer
- quantity integer
- address_id integer
- timestmp timestamp without time zone

product_category (public)
- product_id integer
- category_id integer

product_images (public)
- image_id integer
- product_id integer
- url character varying
- default_img boolean

review (public)
- review_id integer
- customer_id integer
- product_id integer
- msz character varying
- rating integer
- timestmp timestamp without time zone

wishlist_product (public)
- wishlist_id integer
- product_id integer

tracking (public)
- tracking_id integer
- order_id integer
- pincode integer
- status character varying
- updated_by integer
- timestmp timestamp without time zone

Use Cases that we completed:

1) Login/Logout and SignUp features
2) Sellers can add products to the website.
3) Customers can add/remove products to cart
4) Customers can add/remove products to wishlist
5) Customers can update quantity in orders
6) Transaction Management
7) Wallet System
8) Users can add money to Wallet
9) Multiple Customers addresses can be added or deleted
10) Filter by availability of product in particular area
11) Area allocation to delivery person
12) Money distribution after transaction
13) Specific users can update specific status of particular order
14) Order History maintenance
15) Order Tracking system

Remaining Use cases to handle:

1. To provide the Filters to the category of different products.
2. Review system after purchase for a product.

We lack the time to implement these features.