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About : I am currently pursuing my bachelor's degree in Data Science and Applications from IIT Madras.

Description

This project is about making an online Grocery Store Platform named as GMart. From GMart(Grocery Mart) we can buy a different range of fresh product, household essentials. All of these are just a click away.

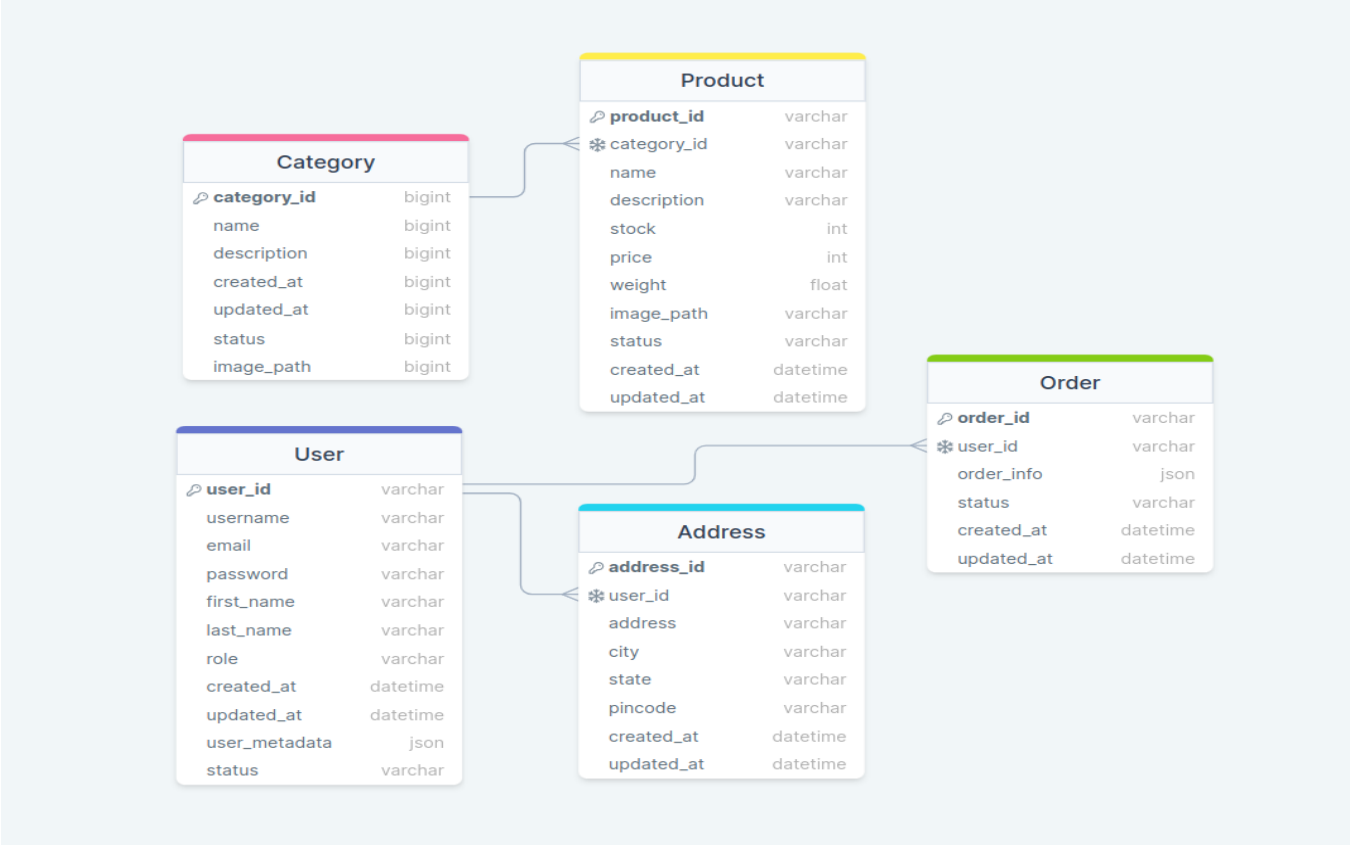
Technologies used

- Python as Programming language, Flask as a web server and SqlAlchemy is used to manage Database(sqlite3) and its operations.
- Frontend technologies Javascript as Programming language, Vue Js CLI as a Javascript Framework.
- SQLite3 is for data storage and Marshmallow used as database validation.
- JWT (JSON Web Tokens) for role based authentication.
- Bootstrap and CSS for styling.

Architecture and Features

- Frontend files are stored in gmart_fe.
- Backend files are stored in Project.
- Database is stored in an sqlite3 database file (g_mart.db).
- Role Based access control for Admin, Manager and Customer. Admin have a separate Login Page. User and Manager have separate Login and Signup Page.
- In GMart, It is a multiple user online grocery store having one Admin, Store managers and other users.
- Admin can add, update, delete Categories and approve and reject category requests.
- Managers can add, update and delete the Products in the Category and request a new category to the Admin side.
- Users searching for Products in Category, adding them to their cart, specifying the delivery address and making the payment complete.
- Users can download PDF of order which is Placed.

DB Schema Design



The above diagram shows the DB Schema design for this project.

- There are five tables in our database. The tables description are as follows :

1. User
2. Category
3. Products
4. Address
5. Order

- Establishing links between tables through relationships.
- In Category and Product tables there is a link that one category can have many products (one to many) and also there is (many to one) relationship between both tables.
- Similarly, the User can have many addresses and orders. So there is one to many and many to one relationship between the User to Address and Order.

Project Demo Video
https://drive.google.com/file/d/1rHd37BvY7Tve2En0CGVbFVz0ncajRs2L/view?usp=sharing