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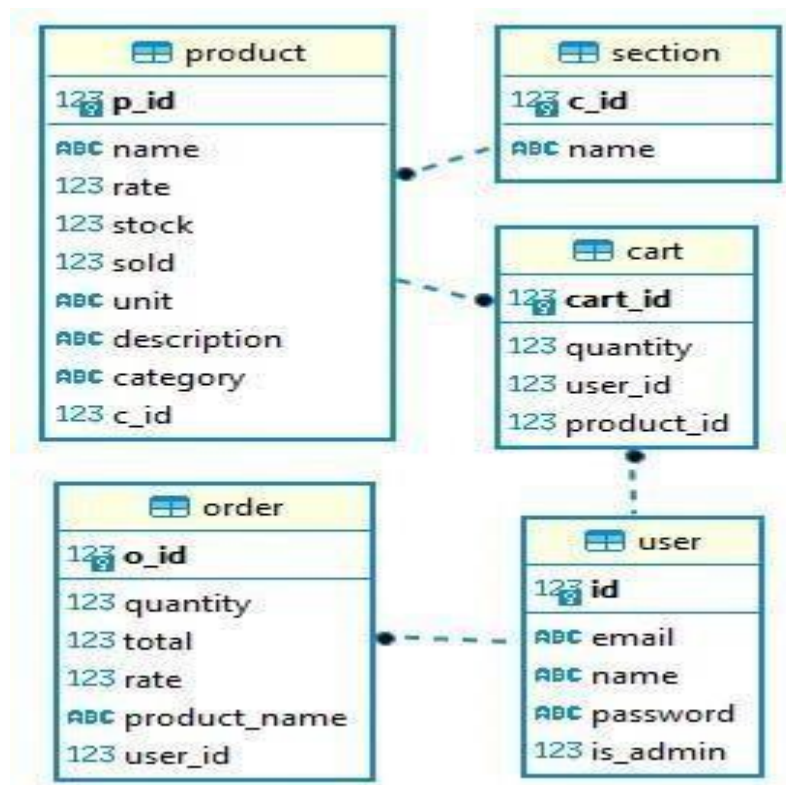- Student e-mail: 21f1004555@ds.study.iitm.ac.in

Description

● The problem statement for this project was to develop a web application, 'Grocery Store'. It is a multi-user app (one required admin/store manager and other users) enabling a user to login/signup with the application and order grocery items for purchase. User can also see his previous orders. Admin can perform CRUD operations on the category and Store manager can add products and request addition of new section/category

Technologies used

- ● The technologies used in this project are:

    – Python libraries, HTML/CSS, Jinja, Bootstrap, Flask, Flask-SQLAlchemy, and SQLite

- ● Python is the core programming language used

- ● Flask is the main framework used for the web app

- ● Flask-SQLAlchemy is the SQL toolkit used to connect with the database file

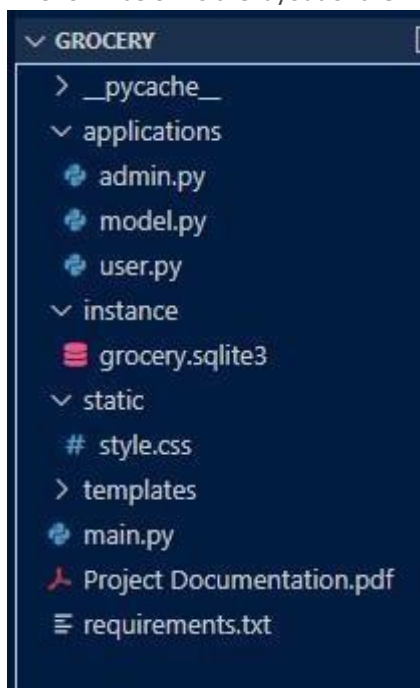- ● SQLite is the database used for the modelling of the application

DB Schema Design

● Given below is the detailed description of the DB schema along with the ERD

Architecture

Shown below is the layout of the web app architecture.

Project Structure:

1. Application folder contains:

1. model.py where database initialization has been done.

2. admin.py with all controllers related to admin dashboard.

3. user.py with all controllers related to user dashboard.

2. All HTML files are present in templates folder.

3. Static folder contains style.css

4. Instance folder contains grocery.sqlite3.

5. Main application is running in main.py.

6. Project Documentation.pdf and requirements.txt also included. Features

- User Authenticationand Dashboard: Users can register and log in using their credentials. Logged-in users have access to a dashboard where they can view products, add them to the cart, place orders, and view order history. Can also search for products by name, category, price etc.

- Product and Category Management (Admin): Admins can manage categories and products by adding, editing, and deleting them. Can also search for products by name, category, price etc.

Video Link: Click here

Store manager can add products and request addition of new section/category