

Author

S SHRIPRASAD

22f1000598

22f1000598@ds.study.iitm.ac.in

I'm a Computer Enthusiast who loves to play with Data, and a passionate programmer. Besides this degree, I'm doing my Bachelors in Computer Science and Eng and I was a Data Analyst Intern. My favorite things to do are binge watching movies and series, explore around and do fun activities.

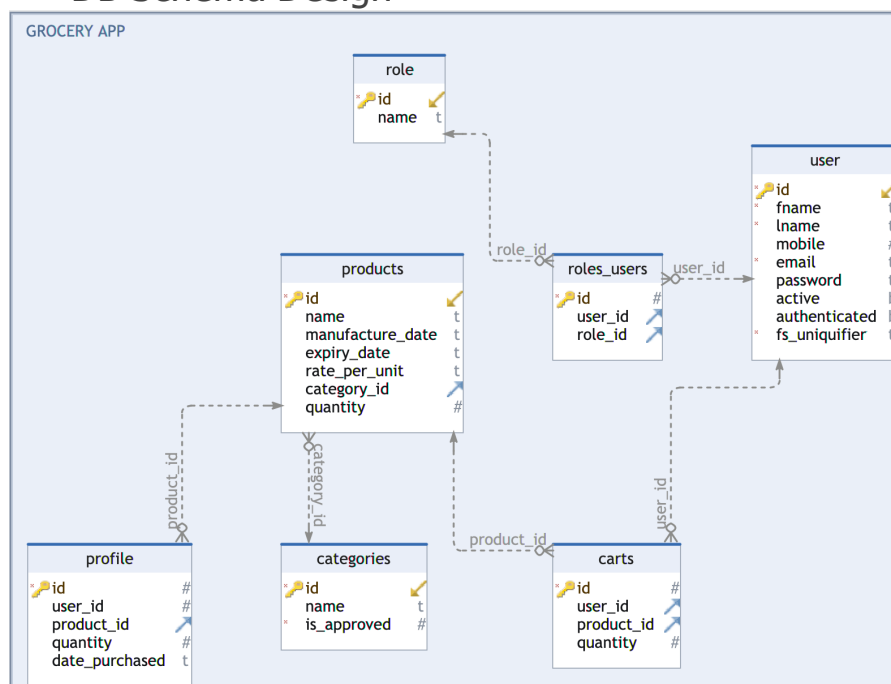
Description

It is a grocery app built using Flask where the users can buy products across various categories. The administrators should be able to manage the categories and products and keep track of the summary of products being purchased by users.

Technologies used

- Pycharm: As an IDE for coding
- Postman: API query tool
 1. Flask
 2. VueJs
 3. Flask-Restful (For api services)
 4. Flask-SQLAlchemy (For databases),
 5. Flask-Mail (For Mailing)
 6. Weasyprint(For PDF reports)
 7. Plotly (Chart Visualization)
 8. Redis (For message broker and caching)
 9. Jinja2 (For Email Templating)
 10. Flask-Caching (For performance and caching purposes)
 11. Pandas

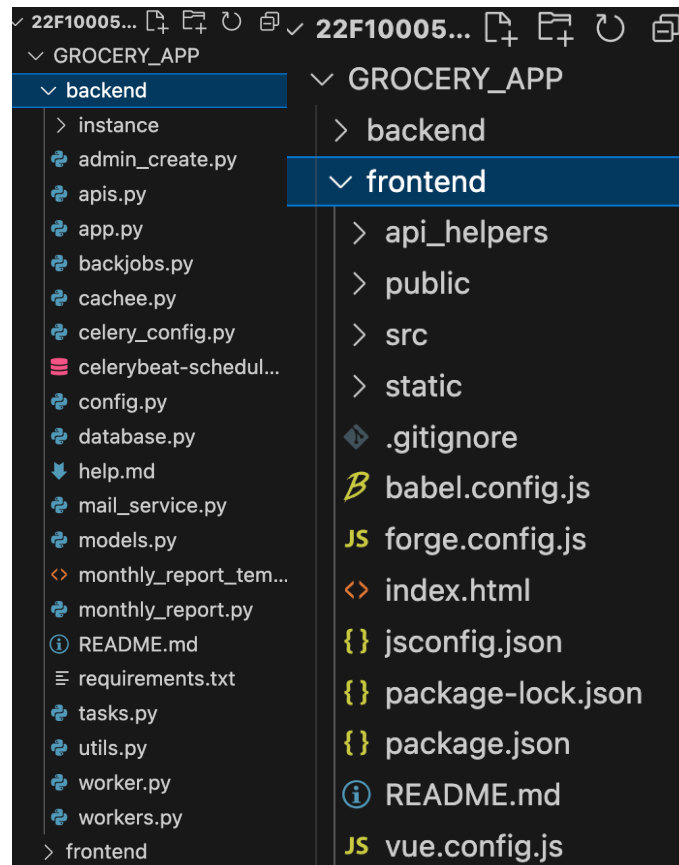
DB Schema Design



I have split the databases into these tables for ease of access and manipulation of the data. I carefully designed the entire schema with the respective primary and foreign keys to be able to link everything properly.

Architecture and Features

The entire application is split into frontend and backend parts, where Vue.js is used for frontend and Flask is used for Backend.



Features Implemented:

- User management with signup, login, manager, and admin access
- Creating and managing categories and products
- Buying products
- Cronjobs for users and admins and managers and Async Jobs
- Caching with redis for performance
- Report Generation and Add to Desktop Feature

Video

https://drive.google.com/file/d/1DKIDET-ea76Ifv7h_OKncn39pKeMwYwL/view?usp=sharing