

Grocery Store App Report

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Description

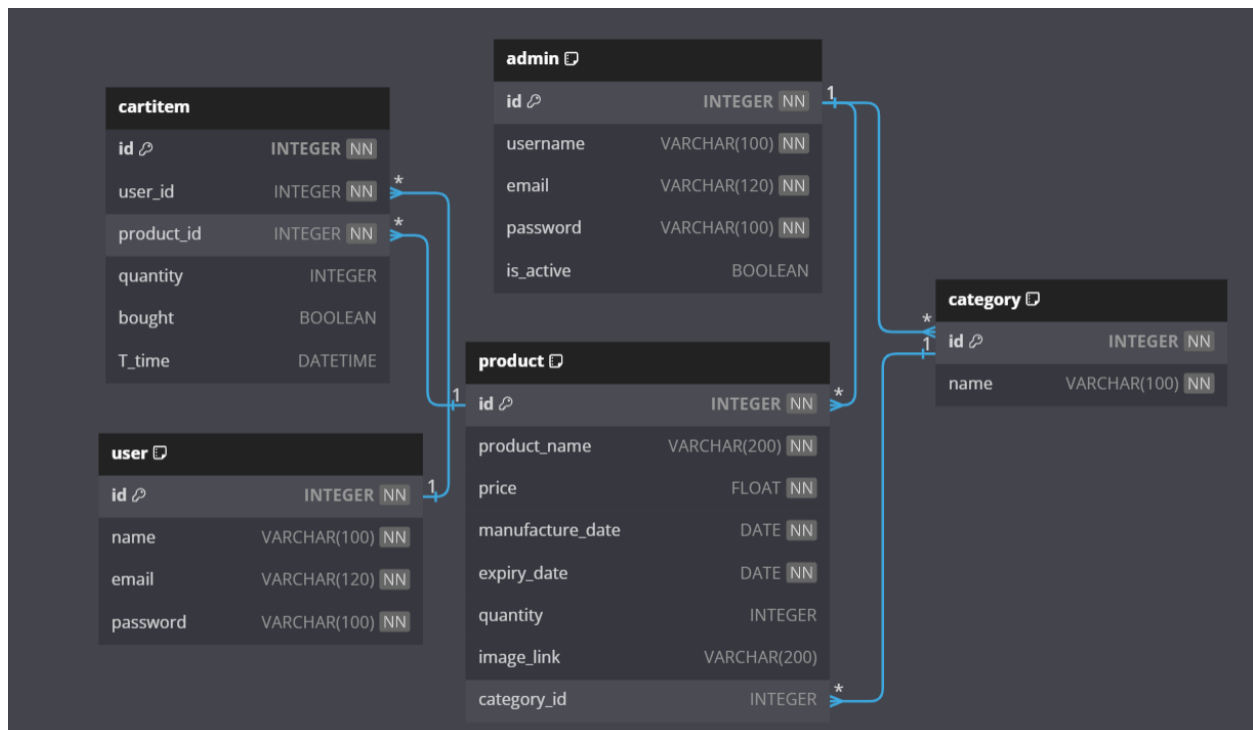
The purpose of this report is to describe the models and overall system design for a grocery store app. Users of the portal may look for categories and products and purchase from it. It also enables the admin to manage categories, products.

Technologies Used

Here's are the technologies I used in this project.

- Python, HTML/CSS/JS, Jinja, bootstrap, Flask, Flask-Login , Flask-SQLAlchemy, Matplotlib's pyplot.
- Python is the core programming language used.
- Flask is the main framework used for the Web-app.
- Flask-Login is used for managing multiple user login and keeping a session alive.
- Flask-SQLAlchemy is the SQL toolkit used to connect with the database file.

DB Schema Design



Architecture and features

Category Management

Admins can manage category by creating, editing, and deleting them. They can also view a list of all products and search them by entering a product name and also filter them by category. No category can be deleted unless all the product associated with it is deleted first.

Product Management

Admins can manage products by creating, editing, and deleting them. They can view a list of all products of a particular category and can filter them based on the name.

Insights / Summary

Admins can look in summary that how many products are there in each category by bar graph.

Search for Products / Category

Users can filter for Category and search for products. The search function returns results based on the search criteria and displays them on a web page.

Cart Items

Users can buy products. The system checks the availability of products and stops taking products when it is out of stock.

Conclusion

The Grocery store app designed in this report provides a comprehensive solution for users to buy products from categories and for admins to manage categories and products. The platform's models - Category and Product - allow for easy storage and management of data related to category, product, and cart. The system design is user-friendly, and the search and buying functions are straightforward and intuitive. Additionally, the platform provides valuable insights to the admin through features such as summary. Overall, this Grocery Store App is an efficient and reliable solution for both users and admins.

Video Link:

https://drive.google.com/file/d/14_impA8cGYy-Q62b1dcZb_3gbYpR3nEN/view?usp=sharing