# Grocery Store Report

## Author :

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- **About Me :** I am currently pursuing the Computer Engineering degree at Government College of Engineering and Research,Aavsari , and  also doing the diploma in programming at IIT Madras.

## Description :

The Multi-User Grocery Store App is a versatile and user-friendly platform designed to facilitate the Seamless buying of groceries for multiple users. The app provides a centralized hub where customers can explore and purchase a wide range of products from various sections within the grocery store.

## Technology Used :

1. **Python Flask** : Used to develop the backend server and handle HTTP requests and responses.
2. **Bootstrap** : Utilized for creating a responsive and visually appealing frontend design with pre-built CSS styles and components.
3. **Jinja Templates** : Employed to render dynamic data from the backend into HTML templates for displaying user-specific content.
4. **Flask-SQLAlchemy** : Integrated to interact with the SQLite database and perform database operations like querying and updating user and product information.
5. **HTML** : Used to structure the web pages and define their content.
6. **CSS** : Utilized for styling the web pages, ensuring a consistent and attractive user interface.
7. **SQLite** : Employed as the database to store product information, user data, and shopping cart details.
8. **Python** : Used throughout the project for writing the backend logic, handling data, and integrating various components.

## Features :

**User Registration and Login**: Users can create accounts and log in to access personalized features. **Product Catalog**: The app provides a catalog of grocery products, organized into different sections or categories. **Product Details**: Users can view detailed information about each product, including its name, price per unit, available stock, and expiry date. **Product Images**: The app displays images of products, allowing users to see what the items look like. **Add to Cart**: Users can add products to their shopping cart to keep track of items they want to purchase. **Cart Management**: Users can view their

shopping cart, update the quantity of items, and remove products from the cart.

**Multi-User Support**: The app allows multiple users to register and use their individual accounts.

**Database Schema :**

| Section Table | User Table | Manager Table |
|---|---|---|
| ➢ Category_id (Primary Key, Autoincrement Integer)<br>➢ Category_name (String, Not Null) | ➢ User_id (Primary Key, Autoincrement Integer)<br>➢ User_name (String, Not Null)<br>Password (String, Not Null) | ➢ Manager_id (Primary Key, Autoincrement Integer)<br>➢ Manager_name (String, Not Null)<br>Password (String, Not Null) |
| **Product Table** | **User_cart_products Table** | **User_cart Table** |
| ➢ Product_id (Primary Key, Autoincrement Integer)<br>➢ Product_name (String, Not Null)<br>➢ Rate_per_unit (Integer, Not Null)<br>➢ Stock (Integer, Not Null)<br>➢ Expiry_date (String, Not Null)<br>➢ Image_url (String)<br>➢ Category_id (Foreign Key, Integer, References section.Category_id)<br>➢ quantity (Integer, Not Null, Default: 1)<br>➢ Manager_id (Foreign Key, Integer, References Manager.Manager_id) | ➢ User_id (Foreign Key, Integer, References User.User_id)<br>➢ Product_id (Foreign Key, Integer, References Product.Product_id)<br>➢ quantity (Integer, Not Null, Default: 1) | ➢ cart_id (Primary Key, Integer)<br>➢ User_id (Foreign Key, Integer, References User.User_id) |

**Video :**

**Video_link: https://drive.google.com/file/d/1GAF665-kjzZf4O3sJ2QnrVr21n7mH_3X/view?usp=sharing**