MAD 1 PROJECT - GROCERY STORE APPLICATION

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I am an enthusiastic and inquisitive individual driven by a thirst for knowledge, constantly seeking to acquire new skills and stay abreast of the latest developments in cutting-edge technologies.

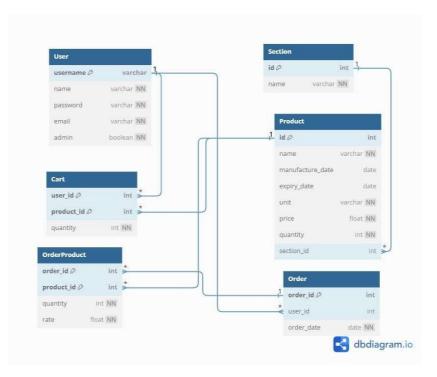
Description

The problem statement required us to develop a Grocery Store web application using Flask, where the application offers a user-friendly platform for both Admin (Store Manager) and Users. Admins can manage categories and products, while Users can browse, search, and buy products from multiple categories. With inventory and cart management, users can easily find, add, and purchase items and the app showcases the total transaction amount.

Technologies used

- HTML/CSS, Bootstrap, Python, Flask, Jinja, SQLite.
- Flask Extensions: Flask-Login (For User Authentication), Flask-SQLAlchemy (For Database), Flask-Restful (For API)

DB Schema Design

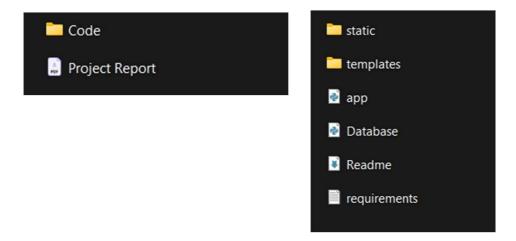


API Design

API has been created for the following Operations

- Login & Register.
- CRUD Operations on Section
- CRUD Operations on Product

Architecture and Features



- The app.py in the Code folder serves as the driver code to start the application. The Code folder contains:
 - Database.py Classes that are derived from SQLAlchemy, and serve as ORM to the database.
 - app.py the controller to route the application, contains API and its validation classes.
- The templates are present in /Code/templates folder. Images are present in /Code/static folder
- Api.yaml has been provided separately.

Features

Administrator Features:

- Administrators can create new food sections, edit existing food sections, and delete existing food sections.
- Administrators can create new food products for an existing food section, edit existing food products, and delete existing food products.
- Administrators can search for food products, food sections, tags, and more using the search bar. They can then view, edit, or
 delete these items as needed.
- Administrators can log out of their accounts.

User Features:

- Users can browse and view different food sections and the food products available within each section.
- Users can purchase products from a particular food section at the listed price.
- Users can search for specific food products, food sections, tags, and more using the search bar. They can then make purchases based on their preferences.
- Users can access their order history and view the details of their past purchases in the "My Orders" section.
- Users can log out of their accounts.

General Features:

- New users can register and create user accounts to purchase from the grocery store.
- Users and administrators must register and log in before accessing the features.
- User-friendly error messages are provided for actions that are restricted or not permitted.

Video: - MAD-1 Project Video Presentation