

# GrocerEase

## Author:

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I am currently pursuing B.Tech in CSE from Anurag University, Hyderabad. I am very much interested in Programming and Data Science and I am looking forward to learning more.

## Description:

This application offers a basic login system that caters to both users and administrators or store managers. Admins or store managers have the privilege to efficiently manage the product inventory by adding, editing, and deleting products and categories. They can also utilize the advanced search functionality to find specific products based on various criteria, ensuring efficient stock management. Users can add their desired products to their carts for easy checkout. The search feature allows users to find products by name, category, or even price, making it convenient to locate exactly what they need.

## Technologies used:

- Flask 2.2.2 - for app routing, template rendering, and redirecting.
- Flask-SQLAlchemy - for connecting the SQLite database as a server with the flask application.
- HTML, CSS, Bootstrap, JavaScript – For styling the pages.

## Database Schema:

### 1. User

- user\_id (Primary Key)
- username
- password
- address
- phone\_number

### 2. Admin

- id
- username
- password

### 3. Category

- category\_id
- category\_name

### 4. Product

- product\_id
- product\_name
- category\_id
- price
- image\_url
- quantity

#### 5. Order

- order\_id
- user\_id
- order\_date
- total\_amount

#### 6. Order\_Item

- order\_item\_id
- order\_id
- product\_id
- quantity
- price\_per\_item

#### 7. Cart

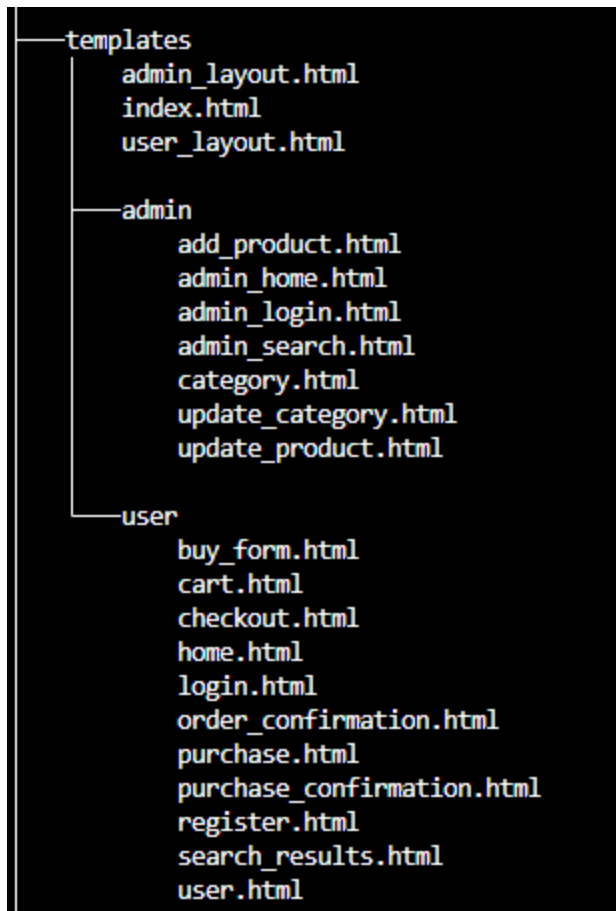
- cart\_id
- user\_id
- product\_id
- quantity

### Architecture and Features:

```

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├── app.py
├── application
│   ├── config.py
│   ├── controllers.py
│   ├── database.py
│   ├── forms.py
│   └── models.py
│   └── __pycache__
│       ├── config.cpython-311.pyc
│       ├── controllers.cpython-311.pyc
│       ├── database.cpython-311.pyc
│       ├── forms.cpython-311.pyc
│       └── models.cpython-311.pyc
├── db_directory
│   └── Database.sqlite3
├── static
│   ├── 1.js
│   └── main.css

```



This application is put to use by running **app.py**. The folder **application** contains all of the business logic of the application. **config.py** sets up the configuration for the application, **controllers.py** has all the flask routes which render the views of the application, **database.py** integrated SQLAlchemy with Flask, **forms.py** has all the forms required for the application, and finally **models.py** has the db models defined in it for the application.

**Video link :** [https://drive.google.com/file/d/1M6rVnQAY6HwJeyWxAsAHsgTiCub5zI/Co/view?usp=drive\\_link](https://drive.google.com/file/d/1M6rVnQAY6HwJeyWxAsAHsgTiCub5zI/Co/view?usp=drive_link)