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# **AppDev I: Project Report**

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## • Introduction:

→This application is made using Flask, SQLAlchemy, Database and table using DB browser for sqlite3.

→The primary objectives of the Grocery Store Management App include:

Providing customers with a user-friendly platform to browse and purchase products online.

Empowering store owners to efficiently manage their inventory, orders, and customer interactions.

## • Features and Functionality:

→The app is built upon Flask, a Python-based micro web framework known for its simplicity and flexibility. Flask serves as the backbone of the application, handling routing, database interactions, and business logic. The frontend is developed using a combination of HTML for structuring content, CSS for styling, and JavaScript for enhancing interactivity.

→Manager(Admin) can add categories, products corresponding to categories, product details such as price, unit, quantity etc.

CRUD operations on category, products helps manager easily manage his/her stock.

- →User can buy, add to cart, manage things in cart such as change quantity added to cart etc.
- →Every time stock is changed by manager, changes are reflected on user's dashboard. Similarly, every order placed by user will reflect change in manager's stock database.

## Development Process :

→Two databases i.e. manager\_db and user\_db are made to handle data of user and manager differently.

#### **Tables:**

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# • Future Improvements:

→Future enhancements for the Grocery Store Management App may include:

- 1. Implementing personalized user accounts for customers to save preferences and order history.
- 2. Introducing a recommendation system to suggest products based on past purchases.
- 3. Enhancing the store management dashboard with advanced analytics and reporting capabilities.

## • Conclusion:

- →In conclusion, the Grocery Store Management App represents a successful fusion of technology and commerce.
- →It contributes to transition of offline grocery store managing to digitalize it.

## • References:

- 1. Flask Documentation: <a href="https://flask.palletsprojects.com/">https://flask.palletsprojects.com/</a>
- 2. JavaScript MDN Web Docs: <a href="https://developer.mozilla.org/en-us/docs/Web/JavaScript">https://developer.mozilla.org/en-us/docs/Web/JavaScript</a>
- 3. Responsive Web Design Principles: https://www.w3schools.com/css/css\_rwd\_intro.asp