Report

Author -

Swapnil Singh   22f1000761

22f1000761@ds.study.iitm.ac.in

Project Title - Online Grocery Store v2

Project video link -

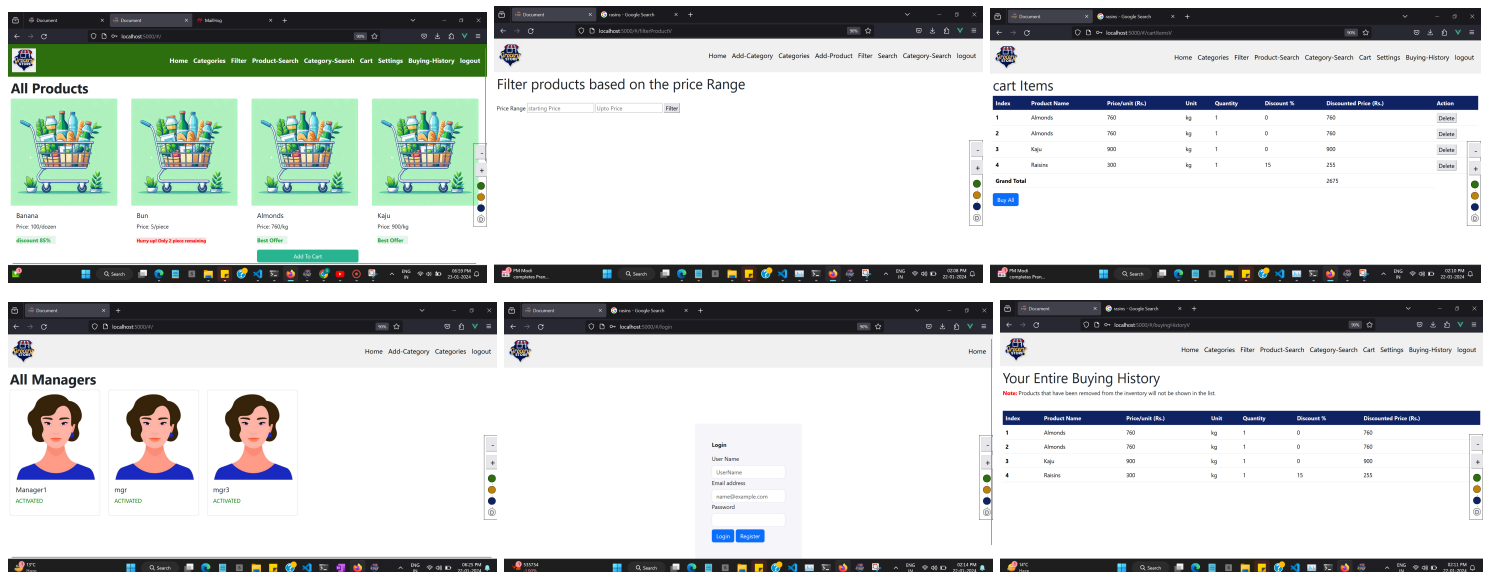https://drive.google.com/file/d/1grHevDyDm_bEYvLIAL8fCAYTtPxibOm-/view?usp=sharing
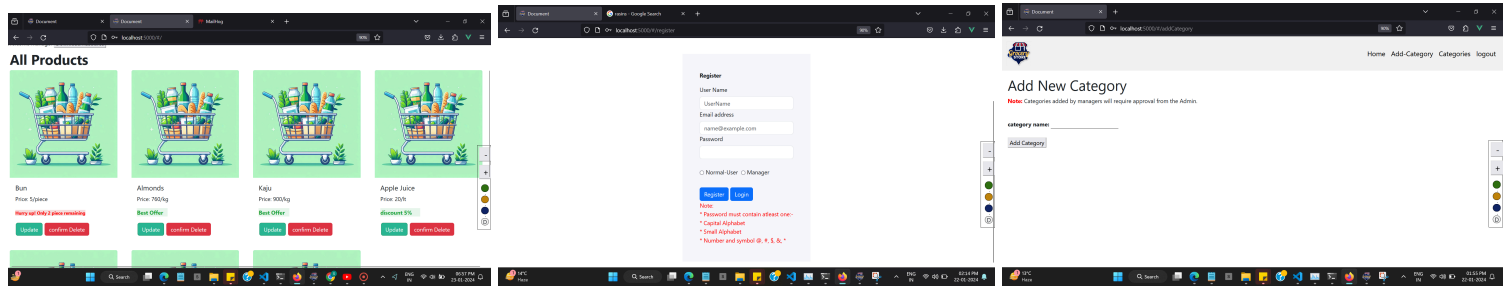
Project Description -

This is a multipage responsive web application named "Online Grocery Store." The first page is a login page; if you are a normal user (customer), you can register and log in as a normal user; if you are a manager, you can register and log in as a manager; and if you are an admin, then you can only log in (registration for admin is not allowed). Different features are - Login, Register, Landing page for normal users, Landing page for managers, Landing page for admin, search-product, search-category, filter (based on price range), settings (for a user to select which type of report he/she wants to receive i.e. HTML or text.), a daily reminder for a user in case he/she has not bought anything that day, monthly progress report for a user, for managers an option to download details of products in inventory as CSV file, and caching.

Extra features -

- You can give a discount on products
- An accessibility menu is available for users who are color-blind or have other visual impairments.

Some screenshots -

About Database -

It uses an SQLite database and contains eight tables (RolesUsers, User, Role, Category, Product, category_product, ShoppingCart, and Orders).

- User - The user table stores different details about users (normal user, manager, and admin)
- Role - The role table lists the different types of roles defined i.e. normal_user, manager, and admin
- RolesUsers - This RolesUsers table is a many-to-many relationship table between the User and Role tables.
- Category - The category table stores different names of categories/sections.
- Product - The product table stores different features of a product like product_id, product_name, manufacture date, expiry date, quantity, unit, price, discount, etc.
- Category_product - The Category_Product table is a relationship table between the category table and the product table.
- ShoppingCart - This table stores the items selected for buying by the customers.
- Orders - This table stores the items ordered by the customers.

About Apis -

- CRUD for categories
- CRUD for products

Technologies used -

- Python
- Flask - for creating the web application
- Sqlalchemy - for creating the database
- Flask_restful
- HTML
- Css
- JavaScript
- Vue 2 - for frontend
- Vuex - Vue's state management library
- Bootstrap
- Flask-caching