

PROJECT REPORT ON MODERN APPLICATION DEVELOPMENT I PROJECT

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Description

This project is about designing a grocery website. It requires separate login pages for user and manager and also a register page for users if not registered yet. The manager should be able to add, edit or delete category, product, unit, price per unit. The manager should also be able to see the summary of users' purchases. The user should be able to add the product to the cart, delete from cart and buy the products in the cart.

Technologies used

The technologies used here are

- flask
- Flask-SQLAlchemy

Flask

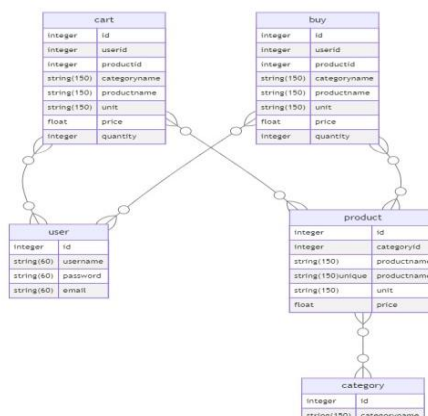
Flask is used for developing web applications using python implemented on Jinja2. The advantages of using flask framework are

- Built-in development server
- Fast debugger

Flask SQLAlchemy

- Flask-SQLAlchemy is a flask extension that makes using SQLAlchemy with flask easier.
- It provides tools and methods to interact with your database in flask applications.

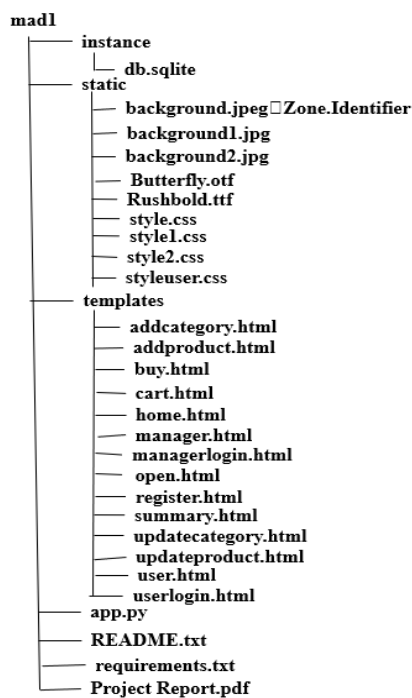
DB Schema Design



This project requires 5 tables in database for storing the products and categories added by the manager, user credentials, the products which are added to cart by the user and the product which are bought by the user.

Architecture

The project folder contains a code file which is named app.py which contains every python codes, controllers, models, etc. It also contains requirements.txt, Project Report.pdf, README.txt and two folders like static and templates. The static folder contains two background images and some font files. The template folder contains all the template files.



Features

This project consists of a home page which gives a description of the grocery shop and links to login as a user or as a manager. When login as a manager is clicked, it asks for manager credentials. Manager Name should be given as “Admin” and password should be given as “12345”. Only these credentials leads to the manager page. In the manager page the navigation bar is present which consists of Dashboard, Summary and Logout. The product leads to the manager page where the manager can add new category, delete the existing category, open category or even edit the category. In open category products can be added, edited and deleted. The “Summary” leads to summary page where the products bought by all the user can be seen. The “logout” redirects to “home” page. When login as a user is clicked, it asks for user credentials and also register page is available. Both the pages leads to user page. User page consists of a navigation bar which consists of Product, Cart, Purchase and Logout. The “Products” leads to user page where user can view the products added by the manager. The user is also able to add the products to cart. The “Cart” leads to cart page where the products which are added to the cart by the user can be viewed. This can also be viewed by the view cart button in the user page. Cart page also consists of total cost. The products in the cart can be bought by the user by clicking “Buy Now” button. The Purchase leads to the purchase page where the products bought by the user can be viewed. This can also be viewed by clicking “View Purchased items” in the cart page. “Logout” redirects to the home page. It also contains the ability to search based on category name and product name.

Video link

https://drive.google.com/file/d/1tIfSF19RslGpZHQ9FftboHoZ-kso-5l/view?usp=drive_link