



MAD-1 Project Report (The Pantry)

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1 Application File Structure

```
/
├── app.py ----- (Main Root file)
├── db.py ----- (Add Dummy data to test)
├── forms.py ----- (All Form Classes defined)
├── requirements.txt ----- (List of all libraries used)
├── readme.md ----- (App starting instructions)
├── instance
│   └── data.db ----- (Our Database )
├── templates/ ----- (Has all templates for app)
│   ├── search.html
│   ├── login.html
│   ├── register.html
│   ├── base.html
│   └── .....more html files
├── static/
│   ├── css/ ----- (Styling sheets)
│   └── images/ ----- (All Images directory)
└── migrations/ ----- (flask-migrate generated files)
```

2 Routes

- / - This is the home route that displays the base template (requires the user to be logged in).
- /register - This route handles the registration functionality for new users.
- /login - This route handles the login functionality for regular users.
- /logout - This route handles the logout functionality for both admin and regular users.
- /admin-login - This route handles the login functionality for the admin.
- /search - This route handles the search functionality based on a query parameter.
- /add - This route handles add product to cart functionality along with quantity.
- /checkout - This route handles place order functionality and ensures stock availability.
- /remove_from_cart/<int:item_id> - This route handles remove product to cart functionality.
- /category/<int:category_id> - This route displays products based on the selected category. It requires the user to be logged in.

- `/register` - This route handles the addition of a new user to the database.
- `/login` - This route handles the login functionality for users.
- `/logout` - This route handles the logout functionality for users.
- `/404` - This route handles the 404 error page.
- `/500` - This route handles the internal server error page.

3 Functionality

- User Authentication: Users can register, login and log out by providing their username, email, and password.
- Admin: Admin/Store manager can log in and manage inventory from the panel.
- Cart and My Orders: Users can add items to their cart for placing an order and can check all their orders on the app.
- Search Product and Category: Users can search for their desired product and category.

4 Data Models

Follow this link to look at the schema: [Database Schema Link](#)

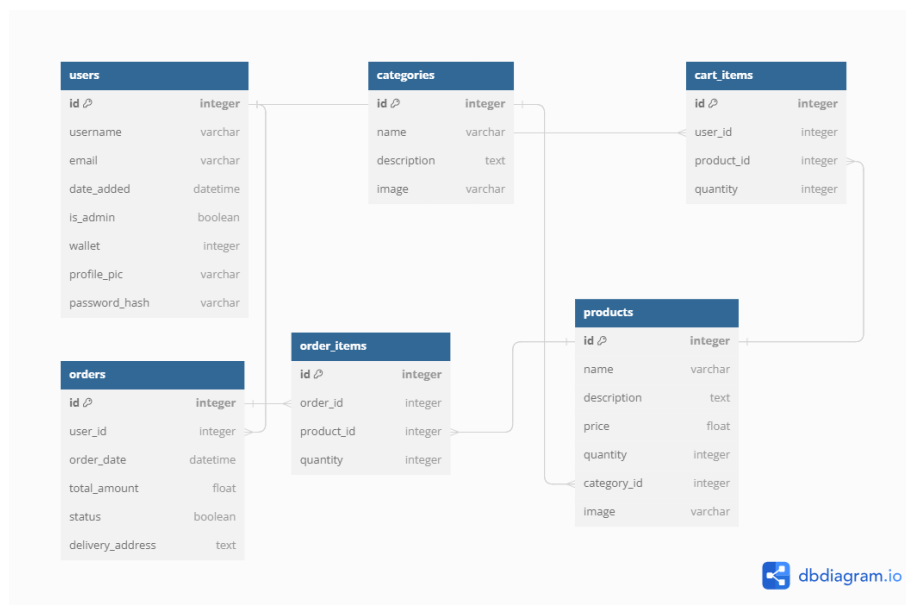


Figure 1: Database Schema

5 Summary

This application is a full-fledged e-commerce platform that offers various features such as user registration, login, and logout. Users can browse through different categories of products, add items to their cart, and place orders. The app also includes admin controls for managing the products and categories, allowing for CRUD operations on these tables.

One notable feature is that each user is initially provided with 1000 in their wallet, which they can use to make purchases. This wallet balance can be updated based on the user's transactions.

Overall, this application provides a seamless shopping experience with user authentication, product browsing, cart management, and order placement.