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CMPSC 431

### ***Project Overview***

We created an Online Business Platform where users can log in, register, browse products, purchase items, leave reviews, etc. The platform helps buyers and sellers to have a good interaction for a local marketplace.

### ***Required Functionalities***

#### ***User Login***

- Users can log in with their email and password.

#### ***Category Hierarchy***

- Products are listed and users can navigate from categories to categories as they want and view products.

#### ***Product Listing Management***

- Users can add, edit, and delete product listings (CRUD) on a product page for details as title, description, price, and quantity.

### ***Order Management***

- Users can purchase products. After a purchase, the quantity reduces and sellers will get balance as the quantity.

### ***Product & Seller Review***

- Users can leave a rating and a written review. The seller's average rating is updated based on previously received reviews

### ***Product Search***

- Users can search for products in the search engine and all matching results are displayed in a simple list format.

### ***User Registration***

- Users can register with their email and password and information is stored in the Users Table.

### ***User Profile Update***

- Users can update their password. Updated passwords are hashed before being saved.

### ***Technical Stacks***

Backend: Flask (Python)

Frontend: HTML, CSS

Database: SQLite (db/Project431.db)

### ***Setup Instructions***

1. Clone or download the repository.
2. Have Python 3 and Flask installed.
3. Run the application: `python app.py`
4. Open your browser and navigate to <http://127.0.0.1:5000/>.