AWE Electronics Store

Project Overview

This project is a Flask-based online electronics store system that is designed to handle various aspects of an e-commerce website. These operations can include the management of products, orders, cart items, payments, users (owner and customers), and messages.

Technologies Used

- **Flask:** The web application framework that we used for implementation of the system.
- **MySQL Workbench:** The database that we have decided to use for development.
- **Bootstrap:** The front-end framework that we used to develop the UI/UX of the application.

Installation

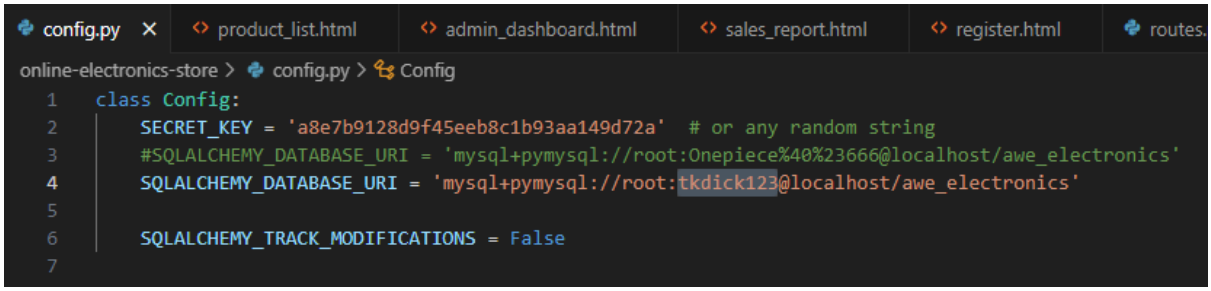
In the event that you require to have a locally working copy on your machine running, please follow these steps:

1. Download the ZIP file of the project attached and extract it.
2. Open a terminal in the project folder.
3. The virtual environment should have been created already, however in the event that it is not created:
    a. python -m venv venv
    b. Activate the environment
        i. On Windows: venv\Scripts\activate
4. Install dependencies by running:
    a. pip install -r requirements.txt

Usage

Ensure you have MySQL Workbench installed as it is the database that we have chosen to use for development purposes.

1. Open MySQL Workbench.
2. Create a new connection on your local instance with the username ‘root’, and password ‘tkdick123’.
    a. The password can be of your choice, however, do note that if you do set your own password, ensure that this change reflects in the config.py file as shown below in the highlighted area.



3. Create a schema called 'awe_electronics'.
4. In the project directory, run reset_db.py. This will reset and create the required tables on a fresh install.
5. Run seeded_products.py after to insert dummy product data to ensure that the web application is now ready for service.

Running the Application

After setting up the database and adding in the initial product data, you can run the application using Flask's development server:

1. First, ensure that you have cd into the actual directory where the files exist:

```
PS C:\Users\Chaoming\Documents\GitHub\online-electronics-store\online-electronics-store> ls


    Directory: C:\Users\Chaoming\Documents\GitHub\online-electronics-store\online-electronics-store


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----         3/06/2025  10:13 PM                app
d-----        31/05/2025   5:04 AM                instance
d-----         2/06/2025  10:57 AM                venv
d-----         5/06/2025   5:58 AM                __pycache__
-a----        31/05/2025   5:04 AM            114 .gitignore
-a----         5/06/2025   6:14 AM            435 approve_admin.py
-a----         2/06/2025  10:51 AM            327 config.py
-a----        31/05/2025   5:04 AM             67 requirements.txt
-a----         2/06/2025  10:51 AM            563 reset_db.py
-a----         2/06/2025  10:51 AM            213 run.py
-a----         2/06/2025  10:51 AM           5835 seed_products.py
```

2. Then, you can run the following command:
   flask run
3. Visit http://127.0.0.1:5000/ in your browser to access the application.
4. Before full testing is possible, please register an account with the following details:
   a. Name: Siam *can be anything you want*
   b. Email: siam@gmail.com
   c. Password: siam1234
5. Upon successful registration, go back to the project directory and run the file 'approve_admin.py'. This will set up the default admin/owner account.

6. Once that is done, the website should be fully functional and ready for testing.