

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 utilises MySQL 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

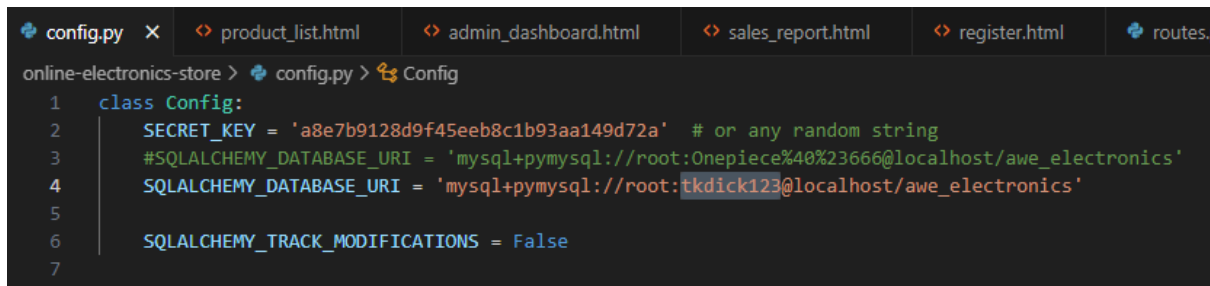
In the event that you require to have a locally working copy on your machine running, please follow these steps:

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.



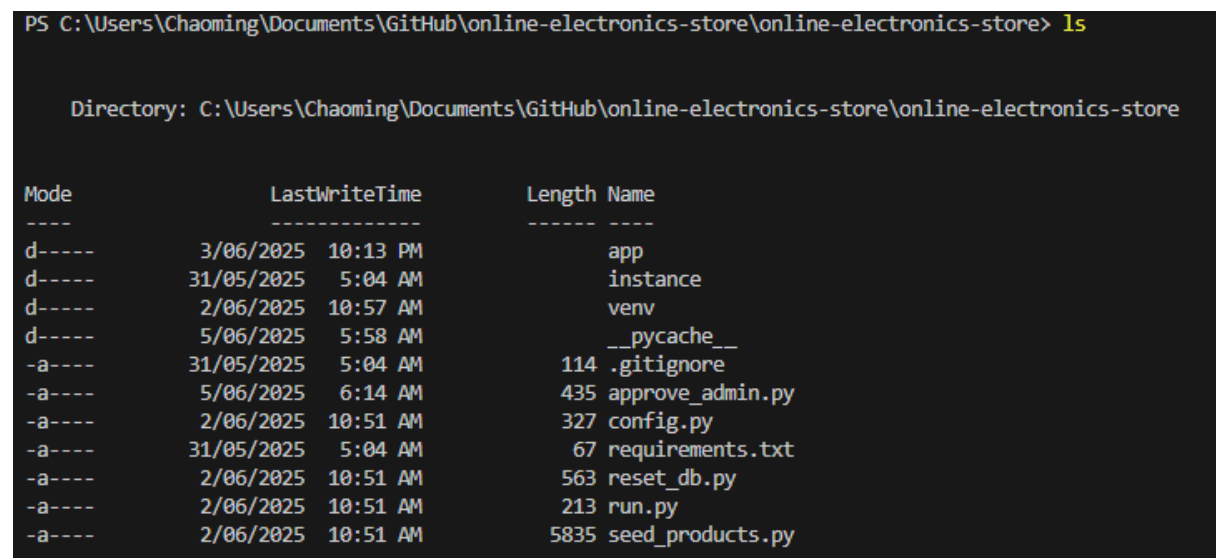
```
config.py x product_list.html admin_dashboard.html sales_report.html register.html routes.  
online-electronics-store > config.py > Config  
1 class Config:  
2     SECRET_KEY = 'a8e7b9128d9f45eeb8c1b93aa149d72a' # or any random string  
3     #SQLALCHEMY_DATABASE_URI = 'mysql+pymysql://root:Onepiece%40%23666@localhost/awe_electronics'  
4     SQLALCHEMY_DATABASE_URI = 'mysql+pymysql://root:tkdick123@localhost/awe_electronics'  
5  
6     SQLALCHEMY_TRACK_MODIFICATIONS = False  
7
```

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.
 - a. In the event you require to run the file in the environment/terminal type:
python reset_db.py
5. Run seeded_products.py after to insert dummy product data to ensure that the web application is now ready for service.
 - a. In the event you require to run the file in the environment/terminal type:
python seeded_products.py
6. **Always make sure you have cd into the actual directory where the files exist before executing any of these commands, should any errors occur.**
 - a. Below is a screenshot demonstrating that you are in the correct directory.

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.
 - a. In the event you require to run the file in the environment/terminal, type:
`python approve_admin.py`
6. Once that is done, the website should be fully functional and ready for testing.