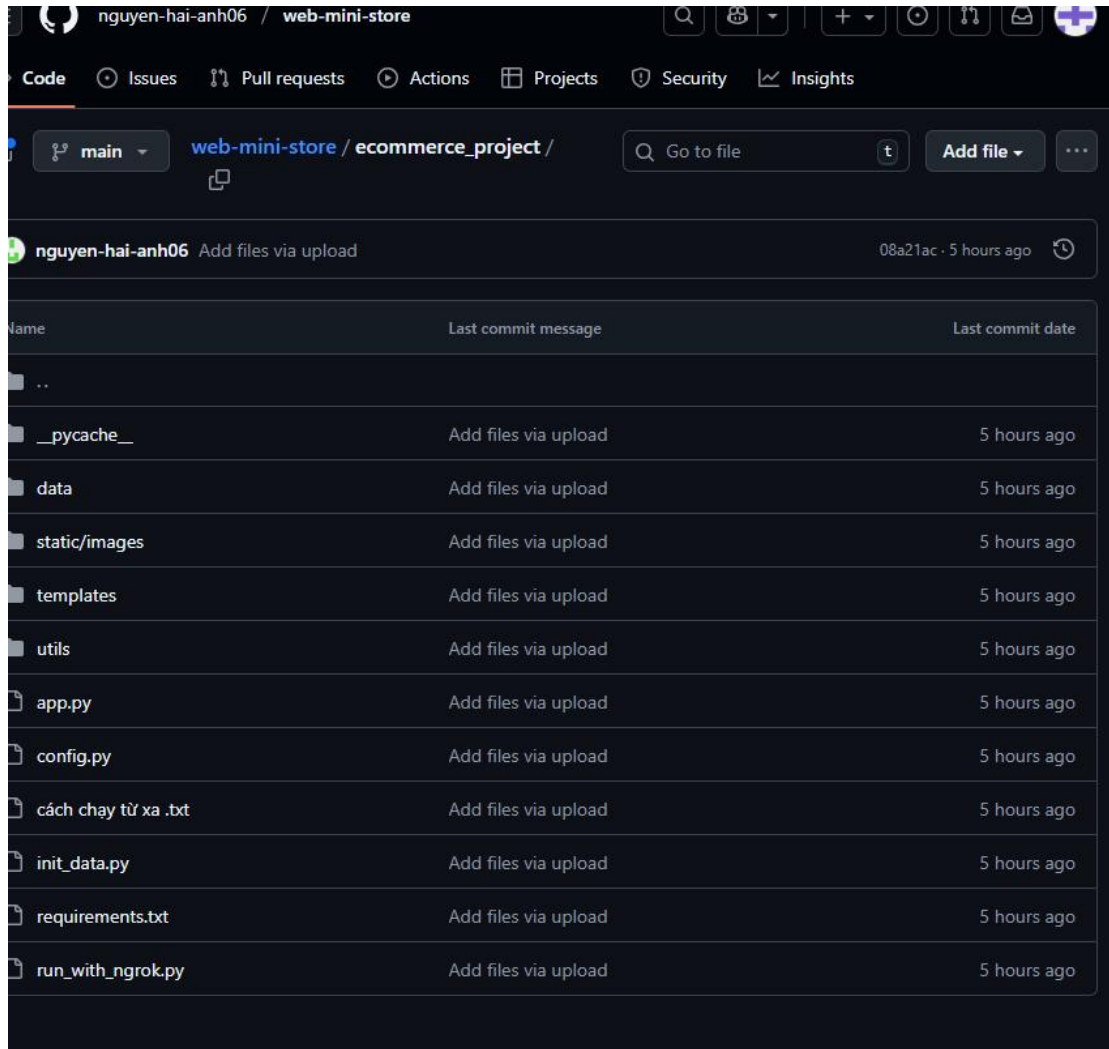


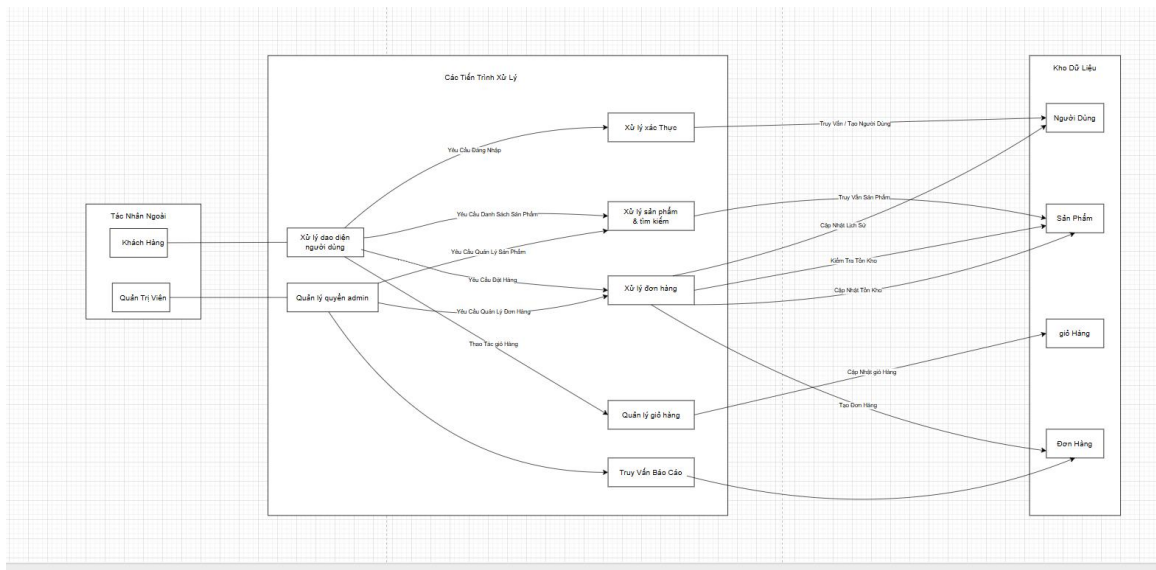
Tool that have been used:

- *Document, source code, and team management: GitHub / GitLab*



name	Last commit message	Last commit date
..		
__pycache__	Add files via upload	5 hours ago
data	Add files via upload	5 hours ago
static/images	Add files via upload	5 hours ago
templates	Add files via upload	5 hours ago
utils	Add files via upload	5 hours ago
app.py	Add files via upload	5 hours ago
config.py	Add files via upload	5 hours ago
cách chạy từ xa .txt	Add files via upload	5 hours ago
init_data.py	Add files via upload	5 hours ago
requirements.txt	Add files via upload	5 hours ago
run_with_ngrok.py	Add files via upload	5 hours ago

- *Drawing DFD, Use Case, Class Diagram, and Database Schema: <https://app.diagrams.net/>*



- Programming IDEs: VS Code

```

1  from flask import Flask, render_template, request, session, redirect
2  from utils.db import SimpleDB
3  from utils.auth import SimpleAuth
4  import os
5  from datetime import datetime
6
7  app = Flask(__name__)
8  app.secret_key = 'ecommerce-secret-key-2024'
9
10 db = SimpleDB()
11 auth = SimpleAuth()
12
13 # Helper functions
14 def format_currency(amount):
15     return f"{amount:,.0f} đ"
16
17 app.jinja_env.filters['currency'] = format_currency
18
19 def get_cart_count():
20     if 'user_id' not in session:
21         return 0
22
23     carts = db.load('carts.json')
24     user_cart = next((c for c in carts if c['user_id'] == session['user_id']), None)
25
26     if not user_cart:
27         return 0
28
29     cart_items = db.load('cart_items.json')
30     user_items = [item for item in cart_items if item['cart_id'] == user_cart['cart_id']]
31     return sum(item['quantity'] for item in user_items)
32
33 def require_admin():
34     if 'user_id' not in session or session.get('role') != 'admin':
35         flash('Bạn không có quyền truy cập trang này!', 'error')
36         return redirect(url_for('home'))
37
38 def require_login():
39     if 'user_id' not in session:
40         flash('Vui lòng đăng nhập!', 'error')
41         return redirect(url_for('login'))
42
43 # ===== ROUTES =====
44
45 @app.route('/')
46 def home():
  
```

- *Creating test cases: Excel*

A	B	C	D
Test Case ID	Function	Test Steps	Input Data
TC01	Login	1. Go to login page 2. Enter valid username & password 3. Click Login	Username: thanhphuchuyinh2210@gmail.com Password: phucthanh2210
TC02	Login	1. Go to login page 2. Enter valid username and wrong password 3. Click Login	Username: thanhphuchuyinh2210@gmail.com Password: phucthanh0000
TC03	Register Account	1. Go to register page 2. Fill all fields 3. Click Submit	Name: Huỳnh Phúc Thành Email: thanhphuchuyinh2210@gmail.com Username: thanhphuchuyinh2210@gmail.com Password: phucthanh2210
TC04	Register Account	1. Go to register page 2. Leave some required fields empty 3. Click Submit	Name: Huỳnh Phúc Thành Email: thanhphuchuyinh2210@gmail.com Password: phucthanh2210
TC05	Logout	1. Login with valid account 2. Click 'Logout'	Username: student01 Password: 123456
TC06	View Product List	1. Login with valid account 2. Go to 'Products' page	N/A
TC07	Add to Cart	1. Login with valid account 2. Go to 'Products' page 3. Click 'Add to Cart'	Product: Iphone 15 pro max
TC08	View Cart	1. Login with valid account 2. Click on 'Cart' icon	N/A