

BuyHive - E-Commerce Project

A Full-Stack E-Commerce Web Application

Introduction

BuyHive is a Django-based e-commerce platform designed to provide a seamless shopping experience. It includes features such as product management, categories, shopping cart, checkout system, and user authentication.

Tech Stack

| Backend | Python (Django) |
|----------|--|
| Frontend | HTML, CSS, Bootstrap, JavaScript |
| Database | SQLite (can be extended to PostgreSQL/MySQL) |
| Tools | Django Admin, Git, VS Code |

Key Features

- ✓ User Authentication (Login/Register)
- ✓ Product Listings with Categories
- ✓ Shopping Cart (Add, Remove, Update Items)
- ✓ Checkout with Total Calculation
- ✓ Stock Management via Django Admin
- ✓ Responsive UI with modern design
- ✓ Price Filtering & Product Search

Workflow

- 1 ■■■ User registers/logs in.
- 2 ■■■ Explores products by category.

- 3 ■■■ Adds products to shopping cart.
- 4 ■■■ Adjusts quantity or removes items.
- 5 ■■■ Proceeds to checkout.
- 6 ■■■ Stock is updated after purchase.

Conclusion

BuyHive demonstrates end-to-end full-stack development with Django, covering backend logic, database integration, and a responsive frontend. It is scalable, customizable, and can be extended with advanced features such as payment gateway integration, order tracking, and user reviews.