Amin Crockeries (Django-Based E-Commerce Website)

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Overview

This project is a comprehensive e-commerce platform built using Django, showcasing a wide array of functionalities essential for any online store. It encompasses features from user authentication and authorization to product management and order processing.

Key Features

Authentication & Authorization

- **User Registration & Login:** Secure and intuitive user authentication.
- **Email Verification:** Ensures only verified users can access certain features.

System & Database Design

- **System Architecture:** Well-structured and scalable design.
- **ORM (Object-Relational Mapping):** Efficient database interactions using Django's ORM.

Frontend Development

- **Django Template Language:** Dynamic webpage rendering with Django templates.
- **Bootstrap Integration:** Responsive and modern UI using Bootstrap.

Management Systems

- **Product Management:** Comprehensive features for adding, editing, and managing products.
- **Order Management:** Efficient order processing and tracking.
- **User Management:** Detailed user profiles and management capabilities.

Development Tools

- **Version Control with GitHub:** Source code management and collaboration.
- **Containerization with Docker:** Consistent development and deployment environment.

Technologies Used

- **Django:** The web framework used for developing the application.
- **Django REST Framework:** For building RESTful APIs.
- **ReportLab:** For generating PDF reports.
- **Pillow:** For image processing.

Installation

To set up the project locally, follow these steps:

1. Clone the repository: `bash git clone <https://github.com/bhyeanhasan/Amin-Crockeries.git> cd <Amin-Crockeries>`
2. Create and activate a virtual environment: `bash python3 -m venv env source env/bin/activate`
3. Install the required packages: `bash pip install django pip install djangorestframework pip install reportlab pip install Pillow pip install djangorestframework-simplejwt`
4. Apply the migrations: `bash python manage.py migrate`
5. Run the development server: `bash python manage.py runserver`

Learnings

- **Authentication & Authorization:** Implementing secure user login and permissions.
- **Email Verification:** Ensuring user authenticity.

- **System & Database Design:** Crafting a scalable and efficient system.
- **Django Template Language:** Creating dynamic and interactive webpages.
- **Bootstrap:** Designing a responsive and modern user interface.
- **Management Systems:** Handling products, orders, and user data effectively.
- **Version Control with GitHub:** Collaborating and maintaining the codebase.
- **Docker:** Containerizing the application for consistent development and deployment.

Conclusion

For any queries or contributions, feel free to reach out or create an issue on GitHub.

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