

# E-commerce application

The scope of the E-commerce Application using Python Django encompasses a wide range of functionalities and features aimed at creating a comprehensive online shopping platform. The system's scope can be categorized into various key areas:

## User Management

- **User Registration and Login:** Allowing customers to create accounts, log in, and manage their profiles.
- **User Authentication:** Ensuring secure access through password encryption and account recovery options.
- **Role-Based Access Control:** Differentiating access levels for customers, administrators, and possibly other roles like vendors or moderators.

## Product Management

- **Product Listings:** Adding, updating, and deleting product details including descriptions, images, prices, and categories.
- **Inventory Management:** Tracking stock levels and notifying administrators when stock is low.
- **Product Categorization:** Organizing products into categories and subcategories for easy navigation.

## Shopping and Checkout

- **Shopping Cart:** Allowing users to add, update, or remove items in their shopping cart.
- **Checkout Process:** Streamlining the checkout process with multiple payment options, including integration with payment gateways for secure transactions.
- **Order Confirmation:** Sending order confirmation emails and receipts to customers.

## Order Management

- **Order Tracking:** Enabling customers to track the status of their orders from processing to delivery.
- **Order History:** Providing users with access to their past orders and allowing reordering.
- **Returns and Refunds:** Handling product returns and processing refunds efficiently.

## Search and Navigation

- **Product Search:** Implementing advanced search functionality with filters for price, brand, ratings, and other attributes.
- **Navigation:** Ensuring intuitive navigation through categories, product listings, and detailed product pages.

## Reviews and Recommendations

- **Customer Reviews:** Allowing customers to leave reviews and ratings on products.
- **Personalized Recommendations:** Using machine learning algorithms to suggest products based on user behavior and purchase history.

## Security

- **Data Protection:** Implementing measures to protect user data and ensure secure transactions.
- **Compliance:** Ensuring the application complies with data protection regulations and industry standards