**Flipkart Clone**

**1. Introduction**

**1.1 Introduction**

Welcome to the documentation for our Flipkart clone! This project aims to replicate the key features of the popular e-commerce platform Flipkart. With a focus on providing a seamless shopping experience, our clone includes functionalities such as user authentication, product management, shopping cart, wishlist, account management, ordering, payment integration through Stripe, and live order tracking.

**1.2 Project Overview**

This project aims to develop a Flipkart-like e-commerce platform where users can browse products, add them to their cart, and complete purchases securely. The platform includes user authentication, product management, payment integration, and an admin panel for inventory control.

**1.3 Objectives**

* Develop a user-friendly e-commerce website.
* Implement secure user authentication.
* Provide a seamless shopping experience.
* Enable smooth payment processing.
* Develop an admin dashboard for managing products and orders.

## 1.4 Business Objectives

* Develop a scalable and user-friendly e-commerce platform.
* Provide a seamless shopping experience with secure transactions.
* Ensure efficient product and order management for administrators.
* Enable multi-vendor support for diverse product listings.

## 1.5 Scope of Program

* Implementation of a fully functional e-commerce website.
* User authentication and role-based access control.
* Product listing, categorization, and search functionality.
* Shopping cart, checkout, and payment gateway integration.
* Order tracking and customer support features.
* Admin panel for product, order, and user management.

**2. Technology Stack**

* **Frontend:** React.js, Next.js, Redux
* **Backend:** Node.js, Express.js
* **Database:** MongoDB / MySQL
* **Authentication:** Firebase / JWT-based authentication
* **Payment Gateway:** Razorpay / Stripe
* **Cloud Storage:** AWS S3 / Firebase Storage
* **Deployment:** Vercel / AWS / DigitalOcean

**3. Features**

**3.1 User Module**

* User Registration & Login (Email/OTP)
* Profile Management
* Order History
* Wishlist Management

**3.2 Product Management**

* Product Listing with Categories & Filters
* Product Details Page with Reviews & Ratings
* Add to Cart & Wishlist Functionality

**3.3 Checkout & Payment**

* Secure Checkout Process
* Multiple Payment Options (UPI, Credit/Debit Card, Net Banking)
* Order Confirmation & Invoice Generation

**3.4 Admin Panel**

* Dashboard for Sales & Revenue Tracking
* Product & Inventory Management
* Order & Customer Management
* Offers & Discounts Management

**4. System Architecture**

* **Frontend:** React.js handles UI & API communication.
* **Backend:** Express.js processes API requests and business logic.
* **Database:** Stores users, products, orders, and transactions.
* **Authentication:** JWT ensures secure login.
* **Payment Gateway:** Razorpay/Stripe manages online payments.
* **Cloud Storage:** Stores images and assets.

**5.Technologies Used**

* Node.js: A JavaScript runtime for executing server-side code.
* Express.js: A web application framework for Node.js, facilitating the creation of robust APIs.
* MongoDB: A NoSQL database used for storing application data.
* Project Structure
* The backend directory structure is organized as follows click above and see

**6. Conclusion**

This Flipkart Clone project is a fully functional e-commerce platform that replicates core Flipkart features while ensuring security and efficiency. It can be expanded further with additional enhancements like AI-based recommendations, chat support, and multi-vendor integration.

**7. images**

**Home Page**

**Landing Page**

**Footer**

**Login Page**

**SignUp**

**Products Page**

**Add to Cart Page**

**Review and Similar Items**

**Shipping Page**

**Order Page**

**Payment Page**

**Stripe Interface**

**Stripe Success Interface**

**Payment Success Page**

**Orders Success Page**

**Orders Details**

**User Account**

**Empty Cart**