

Hackathone-03-Marketplace-project Avion

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Project Overview

Avion is a modern, responsive e-commerce website tailored to serve as a comprehensive marketplace foundation for an innovative business concept. Originally developed during Hackathon 3, this project builds upon the UI/UX designs from Hackathon 2, transforming them into a fully functional platform.

The planning process emphasizes the creation of a dynamic business infrastructure, addressing data schemas for managing products, customers, orders, shipments, and payments. By leveraging Sanity CMS for content management and Next.js for frontend development, Avion ensures a seamless integration of backend and frontend systems.

The vision behind Avion is to offer a scalable, efficient, and user-friendly marketplace enriched with robust features, such as real-time updates, intuitive navigation, and an exceptional shopping experience. This project lays the groundwork for a thriving e-commerce business while showcasing a commitment to

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leveraging cutting-edge technology and user-centric design.

System Architecture

Pages:

- Home Page: A welcoming page showcasing featured products and categories with a sleek and responsive design.
- Shop Page: A dedicated section to explore and filter products based on categories and preferences.
- Cart Page: Allows users to manage items added to their cart with real-time updates and quantity adjustments.
- Order Tracking Page: Allows tracking of ongoing orders with live updates.
- Track Order Page: Users can input their order ID to retrieve specific order details.
- Checkout Page: A secure and efficient checkout process integrated with Stripe for payment.
- Thank You Page: A confirmation page to thank users after a successful order placement.

Technologies Used

| Category | Tool/Library | Purpose |
|----------|----------------|---|
| Frontend | Next.js | Building server-rendered, dynamic UIs. |
| Frontend | Tailwind CSS | Creating responsive and beautiful designs. |
| Frontend | Shadcn/UI | Customizable UI components. |
| Backend | Sanity CMS | Managing and structuring content effectively. |
| Backend | Clerk | User authentication and management. |
| APIs | ShipEngine API | Shipment tracking and delivery management. |
| APIs | Stripe API | Secure and seamless payment processing. |
| Tools | GitHub | Version control and collaboration. |

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|-------|---------|-------------------------------|
| Tools | Postman | Testing and documenting APIs. |
| Tools | Vercel | Fast and reliable deployment. |

API Endpoints

| Endpoint | Method | Purpose |
|--------------------------------|--------|---|
| /api/create-order | POST | Creates a new order when someone places a purch |
| /api/orders | GET | Fetches all orders (admin access only). |
| /api/shipengine/create-label | POST | Generates a shipping label for orders. |
| /api/shipengine/get-rates | GET | Retrieves shipping costs. |
| /api/shipengine/track-shipment | GET | Tracks the status of a shipment. |
| /api/track-orders | GET | Allows users to view all of their orders. |
| /api/send/confirmation-email | POST | Sends an email to confirm an order. |
| /api/reviews/[productId] | POST | Adds a review for a specific product. |
| /api/reviews/[productId] | GET | Fetches reviews for a specific product. |