

Technical Foundation for Hekto Store

1. Overview

Hekto Store is an eCommerce platform designed to provide a seamless shopping experience. This document outlines the technical requirements, system architecture, API design, and best practices to ensure a scalable and efficient online store.

2. Technical Requirements

Frontend

- Built with Next.js for SSR and performance optimization.
- Uses Tailwind CSS for responsive and modern UI design.
- Interactive components with React.js.
- Mobile-first design with optimized media queries.
- Essential pages: Home, Product Listing, Product Details, Cart, Checkout, Order Confirmation.

Backend & CMS

- Sanity CMS for managing product listings, customer details, and orders.
- RESTful or GraphQL APIs to fetch and update data.
- Third-party integrations for payments and shipping.

Third-Party Services

- Payment Gateway (Stripe, PayPal, or Razorpay) for secure transactions.
- Shipment Tracking API for real-time order status updates.

3. System Architecture

[Frontend (Next.js, Tailwind CSS)]

|

[Sanity CMS] ----> [Product Data API]

|

[Payment Gateway] ----> [Order Processing]

|

[Third-Party Shipping API] ----> [Tracking System]

4. API Endpoints

Endpoint	Method	Description
/api/products	GET	Fetch all products
/api/product/:id	GET	Get product details
/api/cart	POST	Add product to cart
/api/order	POST	Place an order
/api/shipment/:orderId	GET	Track shipment

5. Sanity CMS Schema Example

```
export default {
  name: 'product',
  type: 'document',
  fields: [
    { name: 'title', type: 'string', title: 'Product Name' },
    { name: 'price', type: 'number', title: 'Price' },
    { name: 'stock', type: 'number', title: 'Stock Level' },
    { name: 'image', type: 'image', title: 'Product Image' }
  ]
};
```