



Technical plan

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1. Project Overview

The goal of this project is to develop an **e-commerce platform** where customers can browse, select, and purchase furniture products. The website will feature a **modern, responsive, and user-friendly design**, utilizing **Next.js** for the frontend and **Sanity CMS** for backend content management. Integration with third-party services like **payment gateways** and **shipment tracking APIs** will ensure smooth transactions and customer satisfaction.

Key Features and Functionalities

Homepage:

- Showcases featured products, category sliders, and promotions.
- Clear navigation with categories such as "Living Room," "Bedroom," "Office Furniture," etc.

Product Listings:

- Displays products with images, descriptions, prices, and stock availability.
- Filters for categories, price ranges, and ratings.

product Details Page:

Provides detailed product information, including images, dimensions, materials, and customer reviews.
Includes an "Add to Cart" option.

Shopping Cart:

Allows users to add/remove items, view total price, and proceed to checkout.

Key Features and Functionalities

Checkout Page:

- Collects customer details (name, address, payment information).
- Integrates payment gateway

Contact Us:

Includes a form for users to contact customer support.

Order Confirmation:

Displays order summary and estimated delivery date.

Account Management (optional):

users to create accounts, view past orders, and track order status.

Backend Features

1. **Product Management (Sanity CMS):**
 - Admin interface to manage products (create, update, delete).
2. **Order Management:**
 - Track orders, including products, quantities, and delivery information.
3. **Payment Gateway Integration:**
 - Secure integration with Stripe or PayPal.
4. **Shipment Tracking:**
 - Real-time tracking via third-party APIs like ShipEngine or AfterShip.
5. **User Authentication (optional):**
 - Users can sign up, save their cart, and view order history.

System Architecture

Frontend

- **Next.js**: Framework for frontend development.
 - **Pages**: Static and dynamic pages such as homepage, product listings, and product details.
 - **Styling**: Responsive design using **Tailwind CSS**.
 - **Components**: Reusable components like product cards, cart items, and form elements.

Backend

Sanity CMS: Backend to manage product data, customer details, and orders.

- **Product Data:** Structured data including name, price, description, stock, and images.
- **Order Data:** Stores customer name, products, quantities, and delivery information.

Third-Party Integrations

1. **Payment Gateway** : Secure payment processing.
2. **Shipment Tracking API**: Provides real-time tracking information for orders.

Sanity CMS Schema

Product Schema:

```
{  
  "name": "Sofa Set",  
  "description": "A comfortable 3-seater sofa for your living room.",  
  "price": 25000,  
  "stock": 20,  
  "images": ["/images/sofa1.jpg", "/images/sofa2.jpg"],  
  "category": "Living Room"  
}
```

Sanity CMS Schema

Order Schem

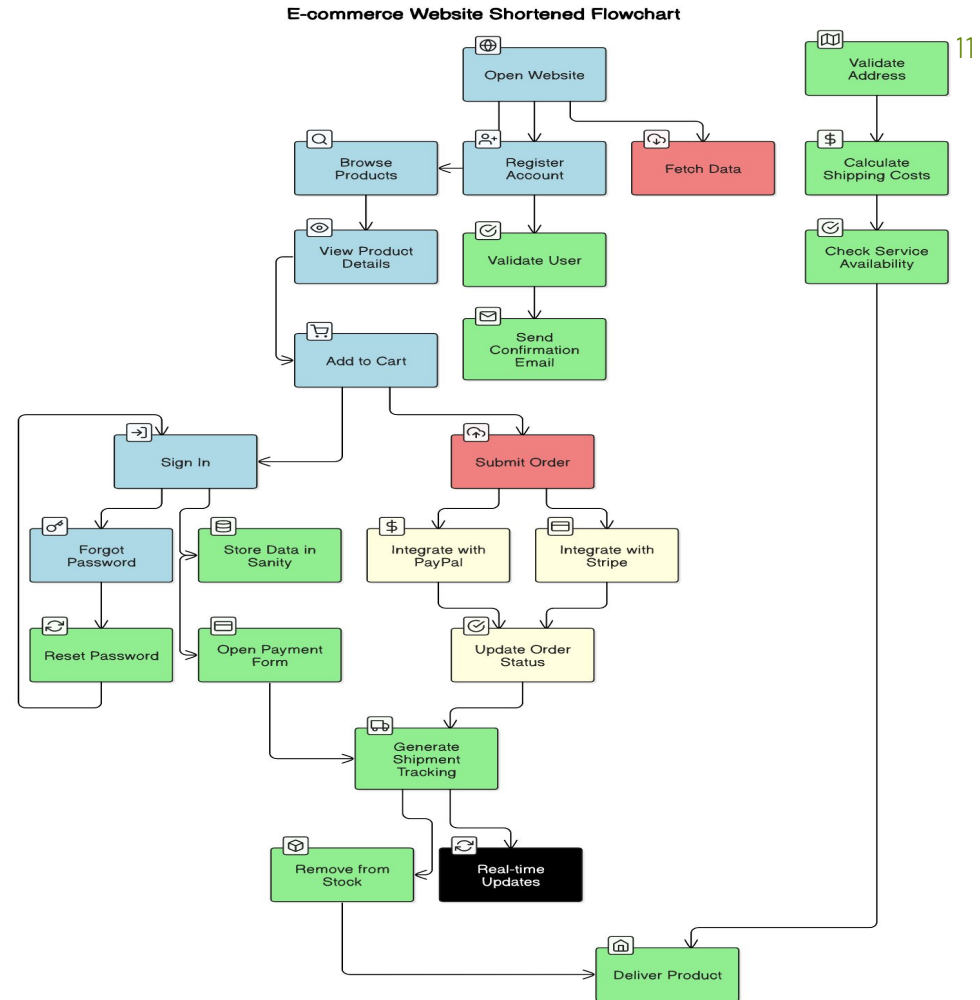
```
{  
  
  "customerName": "John Doe".  
  
  "products": [{ "productId": 1, "quantity": 2 }].  
  
  "shippingAddress": "1234 Elm Street, Springfield".  
  
  "totalPrice": 50000.  
  
  "status": "Pending"  
  
}
```

API Endpoint

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Endpoints_Details [Protected View] - Excel (Product Activation Failed)					
File Home Insert Page Layout Formulas Data Review View Tell me what you want to do... Share					
PROTECTED... Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing					
D10					
	A	B	C	D	E
1	Endpoint Name	Method	Description	Payload/Response	
2	/products	GET	Fetch all available products from Sanity.	Product details (ID, name, price, stock, image).	
3	/orders	POST	Create a new order in Sanity.	Customer info, product details, payment status.	
4	/shipment	GET	Track order status via third-party API.	Shipment ID, order ID, status, expected delivery date.	
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System Architecture Diagram



THANK YOU

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