

# Planning Technical Requirements

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## "Marketplace Technical Foundation (Comforty)"

### Technical Requirements:

- **Frontend:** Provide Best user-experience using Next.js and React for UI components.
- **Backend:** Sanity CMS for product, categories and order.
- **Database:** Sanity as the content source with structured schemas.
- **Third-Party Integrations:**
  - ✓ Payment gateway
  - ✓ shipment tracking API.

### Frontend Requirements:

- **Home Page:** Display featured products or categories.
- **About Page:** Display the vision and mission with details of our website.
- **Shop Listing Page:** All the available products with filtering options.
- **Product Details Page:** Showcase product images, descriptions, prices, and a "Add to Cart" button.
- **Cart Page:** It can Display the selected products with options to update quantities or remove items.
- **Checkout Page:** Handle payment, order and information of customer and shipping.
- **Order Confirmation Page:** Confirm that the order has been placed and show order Details.

### Backend (Sanity CMS):

Using Sanity CMS to manage

- Product data
- Customer Detail
- Order Data
- Delivery Zone
- Shipment Data
- Payment Data

## **API Requirements (Endpoints):**

- **Product API:**

- ✓ GET /api/products → Fetch all products
- ✓ GET /api/products/:id → Fetch product by ID
- ✓ POST /api/products → Add a new product (Admin only)
- ✓ PUT /api/products/:id → Update product details (Admin only)
- ✓ DELETE /api/products/:id → Remove a product (Admin only)

- **Order API**

- ✓ POST /api/orders → Create a new order
- ✓ GET /api/orders/:id → Fetch order details
- ✓ PUT /api/orders/:id/status → Update order status (Admin only)

- **Shipment Tracking API**

- ✓ GET /api/shipment/:trackingNumber → Fetch shipment status.

## **User Journey**

1. User browses products.
2. User adds items to the cart.
3. User proceeds to checkout.
4. Payment is processed through Stripe/PayPal.
5. Order is created and stored in Sanity.
6. Admin updates order status.
7. Shipment tracking is available.

## **Admin Workflow**

1. Admin logs in.
2. Admin adds/updates products.
3. Admin manages orders.
4. Admin updates shipment statuses.

