# **Planning Technical Requirements**

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**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.

