

## Hackathon-3 Day 2: Transitioning to Technical Planning

By Kanwal Rafiqe.

Roll number: 00311635

Wednesday 7:00-10: pm

## Technical Requirements

- **Frontend Requirement:**

1. **User-Friendly Interface**
  - Clean design for easy product browsing, filtering, and sorting.
2. **Responsive Design**
  - Adapts seamlessly to mobile, tablet, and desktop devices.
3. **Essential Pages**
  - **Home Page:** Displays featured collections and promotions.
  - **Product Listing Page:** Shows categorized products with filters.
  - **Product Details Page:** Provides detailed product info and purchase options.
  - **Cart Page:** Lists selected items with editing options.
  - **Checkout Page:** Collects payment and shipping details.
  - **Order Confirmation Page:** Confirms order placement and shows details.

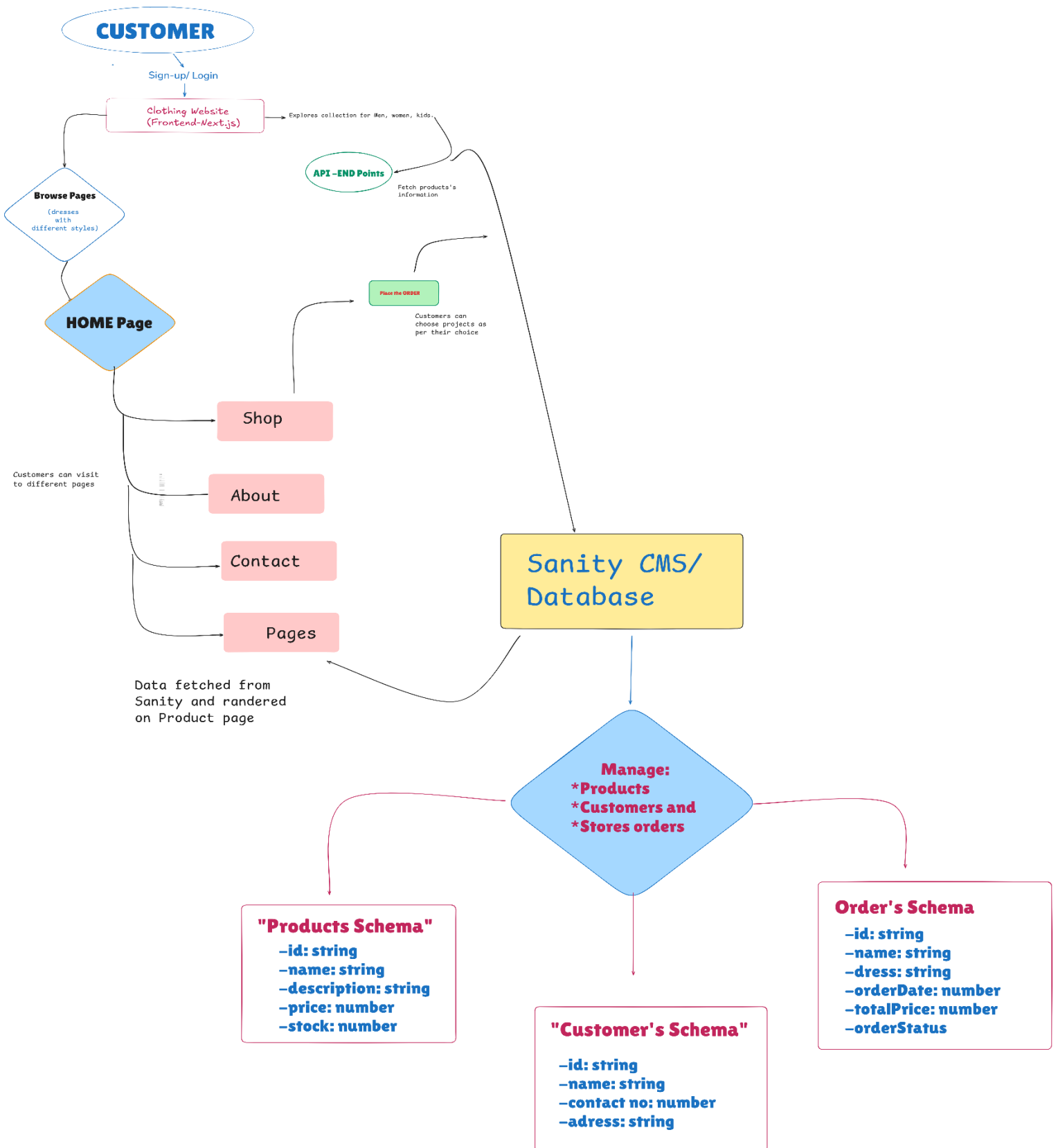
- **Sanity CMS as Backend**

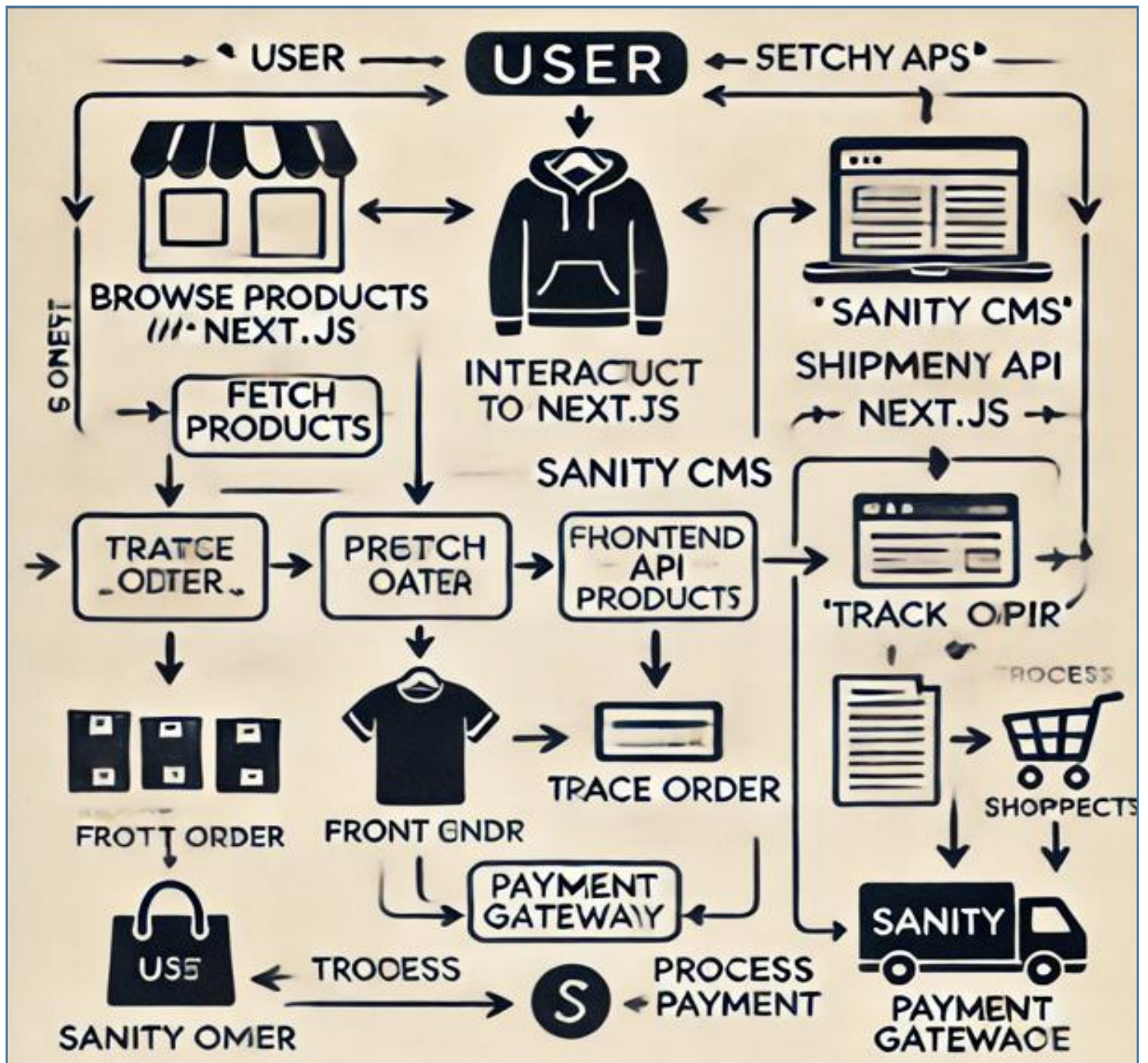
1. **Product Management**
  - a. Schemas for categories, products, and variants (e.g., size, color).
2. **Customer Data Management**
  - a. Stores customer profiles and addresses.
3. **Order Records Management**
  - a. Tracks order details, payment status, and shipping info.

- **Third-Party APIs**

1. **Shipment Tracking API**
  - Integrates Shippo, for tracking deliveries.
2. **Payment Gateway API**
  - Processes transactions via Stripe.
3. **Frontend API Integration**
  - Updates order status and cart dynamically

# System Architecture [Frontend (Next.js)]





Key Workflows:

## APIs End Points:

Endpoints	Method	Description
/Products	Get	Fetches products/dresses
/Products/id	Get	Fetches a specific product/dress
Orders	Post	Creates a new order
Orders/id	Get	Fetches specific order
/shipment/tracking/id	Get	Tracks shipment status

## Sanity Schema:

### Product's Schema:

```
export const product = {
  name: 'product',
  type: 'document',
  fields: [
    {name: 'name', type: 'string', title: 'Product's name'},
    {name: 'price', type: 'number', title: 'Price'},
    {name: 'image', type: 'image', title: 'Product's image'},
    {name: 'category', type: 'string', title: 'Catogery'},
  ]
};
```

### Order's Schema:

```
export const product = {
  name: 'order',
  type: 'document',
  fields: [
    {name: 'orderNumber', type: 'string', title: 'Order Number'},
    {name: 'customer', type: 'reference, to: [{type: 'customer'}]}title: 'Customer'},
  ]
};
```

### Customer's Schema:

```
export const product = {
  name: 'customer',
  type: 'document',
  fields: [
    {name: 'name', type: 'string', title: 'Customer's name'},
    {name: 'adress', type: 'string', title: 'Adress'},
    {name: 'phone', type: 'number', title: 'Number'},
  ]
};
```