Hackathon 3

Hackathon Day 2: Planning the Technical Foundation

Marketplace Technical Requirement- **[SHOP.CO]**

Frontend Workflow:

Step 1: Home Page

Features:

- Hero banner with promotional offers (data from CMS).
- Display featured products.
- Navigation to categories (e.g., Pants, Shirts & Shorts).

Step 2: Product Catalog

Features:

- Display all products with filtering options (size, color, and price).
- Sorting options (Price, Top Selling, and New Arrival).

Step 3: Product Details Page

Features:

- Show product images, name, price, description, available sizes, and stock.
- Allow users to select size, color, and quantity.
- Add-to-cart button.

Step 4: Shopping Cart

Features:

- Display selected products, quantity, and total price.
- Allow users to update quantity or remove items.
- Show "Proceed to Checkout" button.
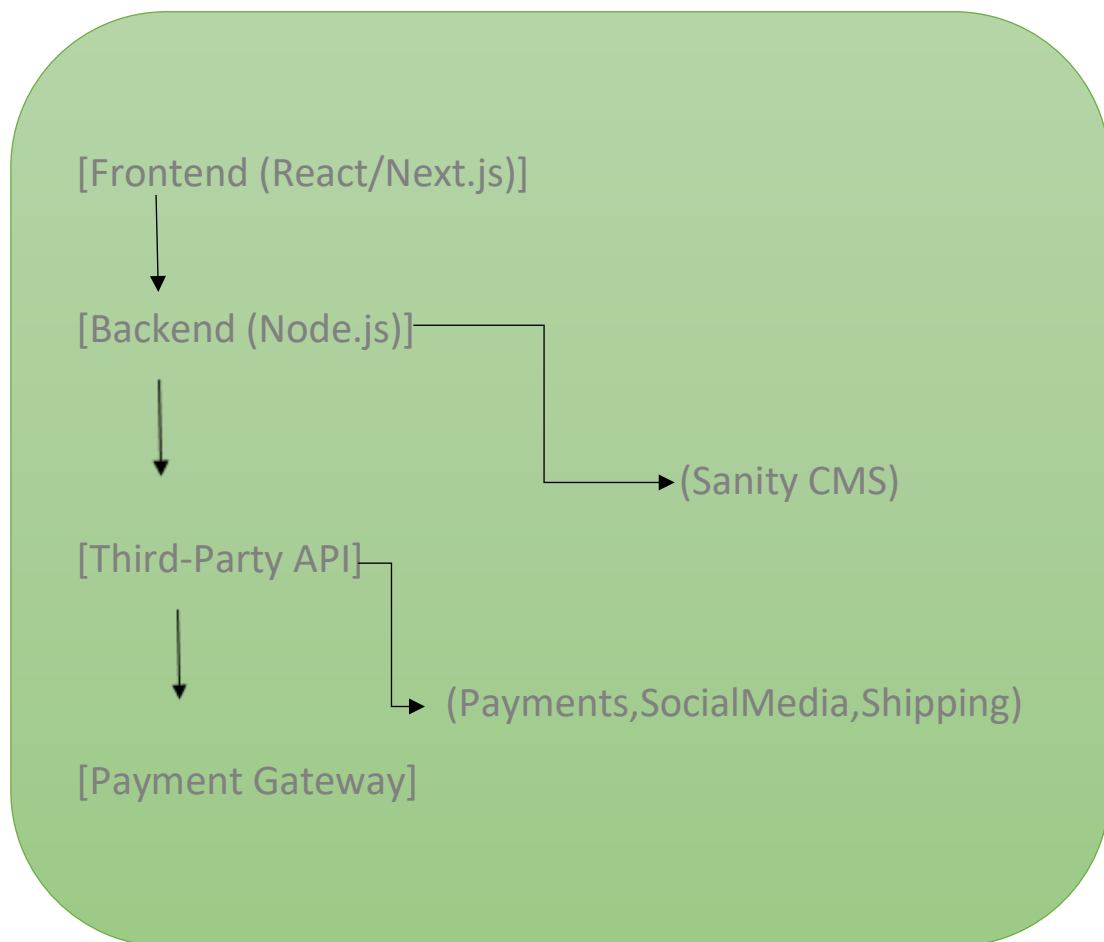
Step 5: Checkout Page

Features:

- Show cart summary, Delivery address form, and payment options.
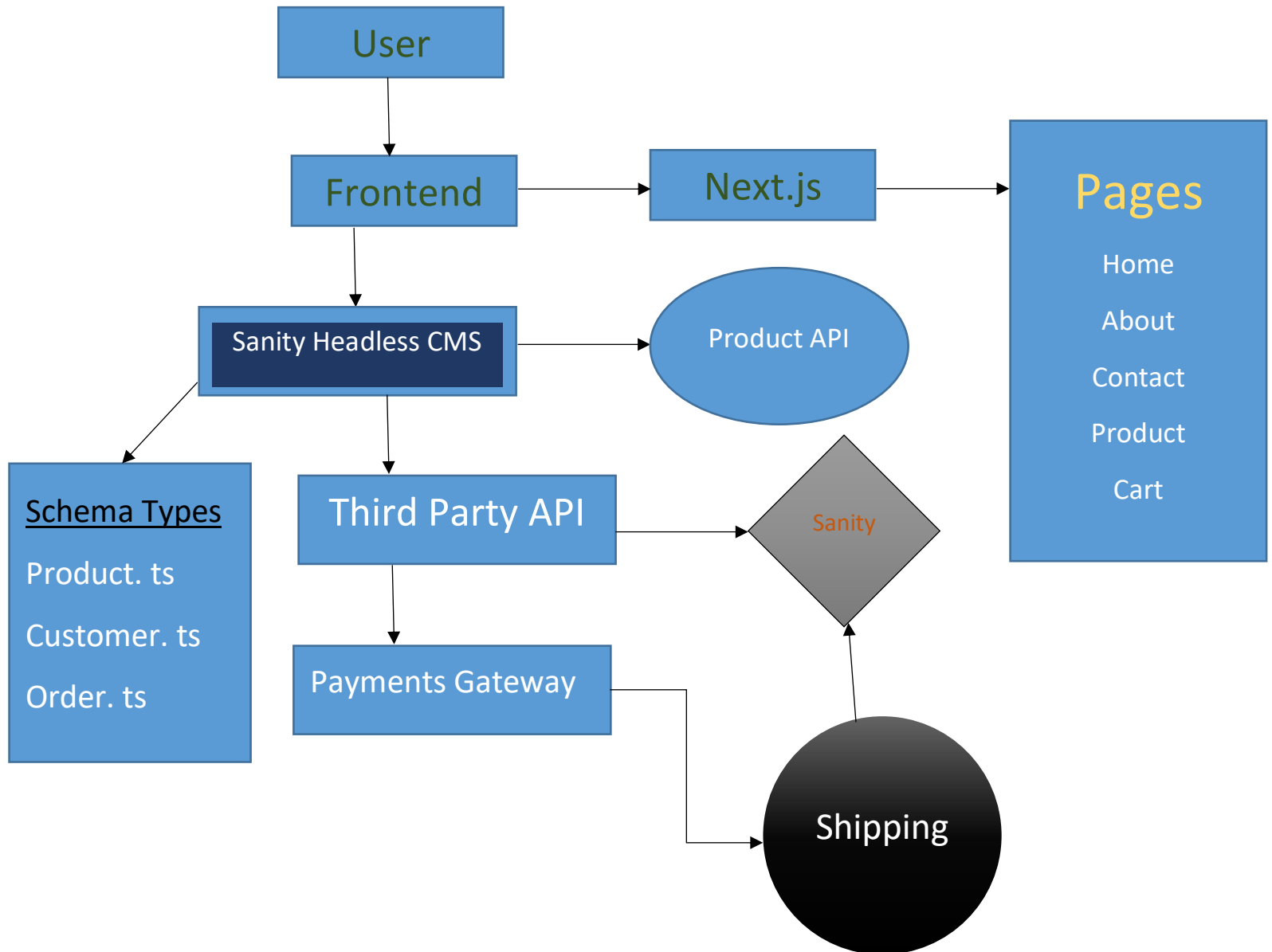
Backend Workflow:

- **User Management**: Login and profile updates.
- **Product Management**: Fetch products, filtering, and sorting.
- **Cart**: Add, update, and remove items.
- **Orders**: Place and deliver orders.
- **Payments**: Secure payment gateway.
- **CMS**: Fetch data content dynamically.

System Architecture

[Frontend (React/Next.js)]

[Backend (Node.js)]

(Sanity CMS)

[Third-Party API]

(Payments,SocialMedia,Shipping)

[Payment Gateway]

System Architectural Workflow

SHOP.CO   Clothing Store

User

Frontend

Next.js

Pages

Home

About

Contact

Product

Cart

Sanity Headless CMS

Product API

Schema Types

Product. ts

Customer. ts

Order. ts

Third Party API

Sanity

Payments Gateway

Shipping

API Endpoint

Products:

Name: /products

- Method: GET
- Description: Fetch all available products from Sanity.
- Response: Product details (ID, name, price, tags, description, stock, image)

Orders:

Name: /orders

- Method: POST
- Description: Create a new order in Sanity.
- Response: Order details(customer ID, products ID, quantity)

Customer:

Name: / Customer
- Method: GET
- Description: Customer Information
- Response: Customer details(name, email, Contact No, Address)

Delivery Zone:

Name: /Delivery Zone

- Method: GET
- Description: Track order status

- Response: Tracking details(zone Name, Zone Destination, assign Driver)

Payment:

Name: /Payment

- Method: GET
- Description: Take payment from customer.
- Response: (payment ID, order ID, customer ID, payment method, amount, status)

Conclusion

The system is designed to make your our online clothing store work smoothly and grow easily. By using tools like Sanity CMS and third-party APIs, it becomes faster and simpler to build. This plan helps you focus on providing a great shopping experience for our customers while ensuring the business runs efficiently and is ready for future growth.