SYSTEM ARCHITECTURE OVERVIEW

```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│  Frontened   │ ───▶ │  Sanity CMS  │ ───▶ │ Third Party  │ ───▶ │   Payment    │
│  (NextJs)    │      │              │      │    APIs      │      │   Gateway    │
└──────────────┘      └──────┬───────┘      └──────┬───────┘      └──────────────┘
                             │                     │
                             ▼                     ▼
                      ┌────────────┐        ┌────────────┐
                      │  Product   │        │  Shipment  │
                      │  Data      │        │  Tracking  │
                      │  API       │        │  API       │
                      └────────────┘        └────────────┘
```

Furniro-Workflow

PRODUCT PAGE

Product Page

Dynamic Page

ORDER PAGE

Buy now btn

Add to cart btn

Review & ratings

CUSTOMER

Login

Cart Page

Cards

Subtotal

Checkout Page

Delivery charges

Shipment API

Proceed to Payment

Total amt
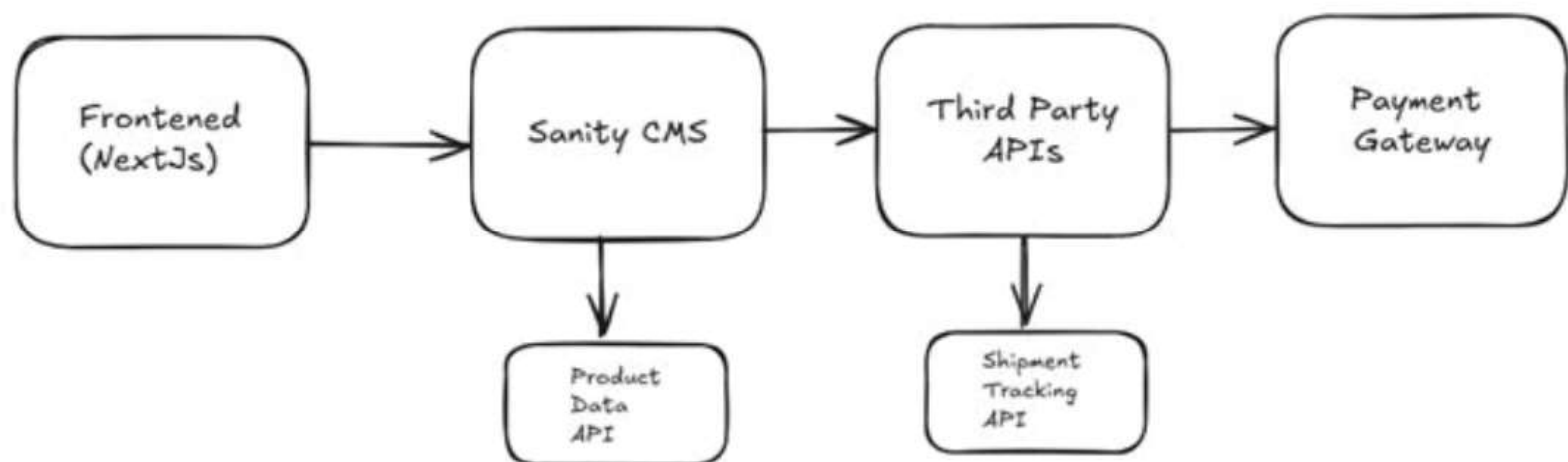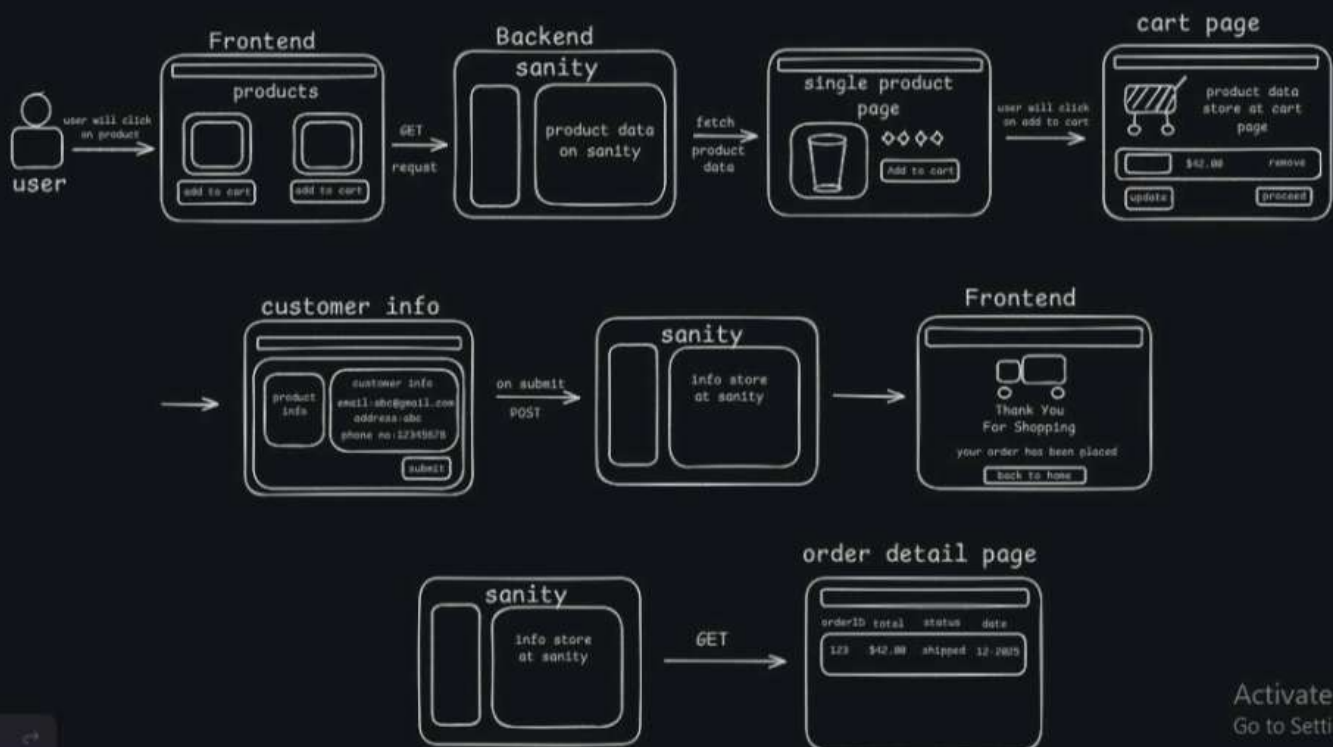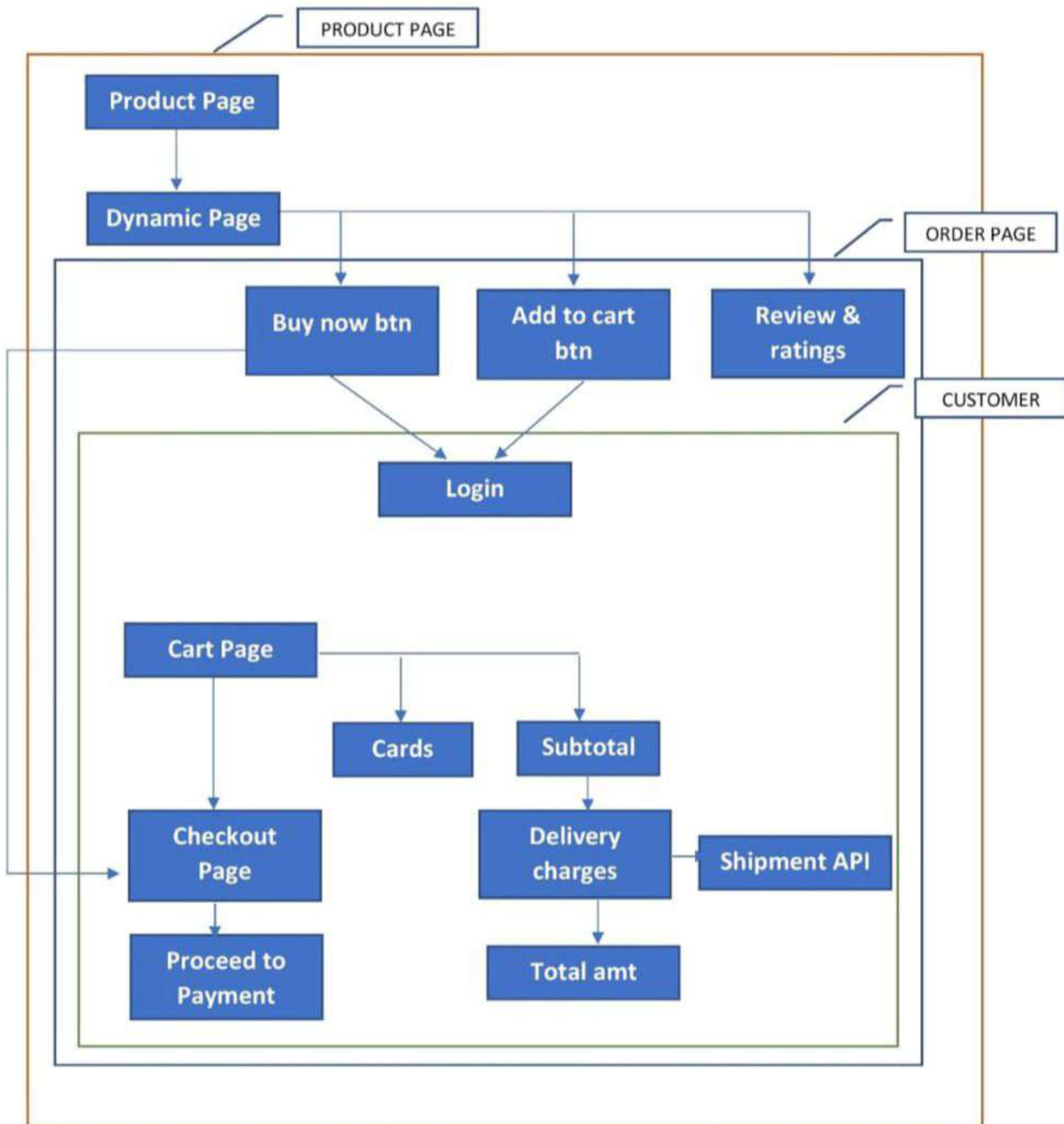
Technical Roadmap

week#1

1. Set up Next.js frontend
2. Configure Sanity CMS

week#2

1.Integrate Sanity CMS APIs with the frontend for dynamic product and order data.
2. User registration & login overflows

week#3

1. Add Payment Gateway
2. Integrate Shipment tracking

week#4

Finalize workflows, optimize the frontend, and test the complete system.

2.Sanity CMS Schema Design:

Sanity CMS for managing product data, orders, and customer details.

Here's a detailed schema design for **Product, Order, Customer, Payment, Shipment,** and **Delivery Zone** using Sanity CMS:

[Products]

```
export interface Product {

 _id: string;

 _type: 'product';

 name: string;

 slug: { _type: 'slug'; current: string };

 description: string;

 price: number;

 images: { _type: 'image'; asset: { _ref: string; _type: 'reference' } }[];

 dimensions: string;

 material: string;

 stock: number;

 category: { _type: 'reference'; _ref: string };

 tags: string[];

 reviews: { _type: 'reference'; _ref: string }[];

}
```

1

[Customer]

```
export interface Customer {

 _id: string;

 _type: 'customer';

 name: string;

 email: string;

 phone?: string;

 address: {

  street: string;

  city: string;

  state: string;

  postalCode: string;

  country: string;

 };

 orders: { _type: 'reference'; _ref: string }[];

}
```

[Order]

```typescript
export interface Order {

  _id: string;

  _type: 'order';

  customer: { _type: 'reference'; _ref: string };

  items: {

    product: { _type: 'reference'; _ref: string };

    quantity: number;

    price: number;

  }[];

  totalAmount: number;

  paymentStatus: 'pending' | 'completed' | 'failed';

  shippingStatus: 'pending' | 'shipped' | 'delivered';

  payment: { _type: 'reference'; _ref: string };

  shipment: { _type: 'reference'; _ref: string };

}
```

[Payment]

```typescript
export interface Payment {

 _id: string;

 _type: 'payment';

 order: { _type: 'reference'; _ref: string };

 paymentMethod: 'credit_card' | 'paypal' | 'bank_transfer';

 transactionId: string;

 amount: number;

 status: 'pending' | 'completed' | 'failed';

}
```