Step 1: Define Technical Requirements

- Next.js: A React-based framework for building server-rendered and static web applications. It provides excellent performance, SEO optimization, and flexibility with API routes, making it a strong foundation for e-commerce platforms.
- Sanity CMS: A versatile headless CMS used as the backend to manage product data, customer details, and order records. Its real-time collaboration features and flexible schema design are ideal for dynamic marketplaces.
- Tailwind CSS: A utility-first CSS framework that facilitates the rapid creation of responsive and customizable designs, ensuring a sleek and consistent user interface across all devices.
- Third-Party Shipment API: Integrates real-time shipment tracking and delivery updates to enhance the post-purchase experience and boost customer satisfaction.
- Vercel: A high-performance cloud platform for deploying and hosting web applications. It supports Next.js apps with quick deployment, scalability, and optimized performance.

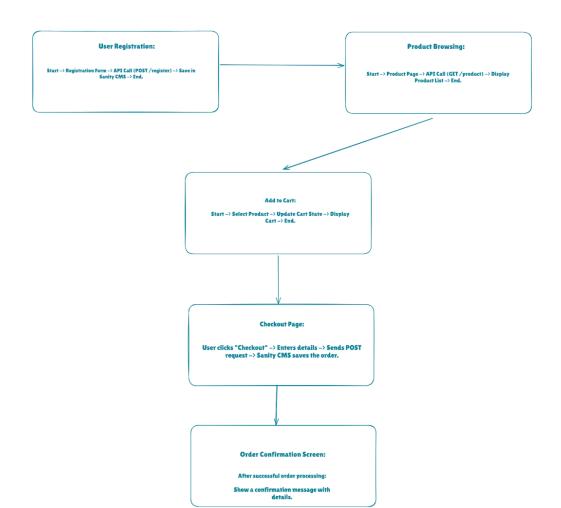
Step 2: Plan Design Architecture

SYSTEM ARCHITECTURE

Frontend: Next.js

Backend: Sanity CMS

Third Party API: Shipment & Tracking



Step 3: Plan API Requirements

General E-Commerce:

List of Endpoints:

- 1. User Signup
 - o Method: POST
 - o Endpoint: /signup
 - Purpose: Creates a user account and stores user information in Sanity CMS.

```
Payload:
{
    "name": "username",
    "email": "user email",
    "password": "user password"
}
```

2. Fetch Products

Method: GET

Endpoint: /product

Purpose: Fetches all product data from Sanity CMS.

```
Response:
  "_id": "2214",
  "name": "product name",
  "description": "product description",
  "stock": 40,
  "image": "image url"
},
{ ... },
{ ... }
1
   3. Submit Order
          o Method: POST
          Endpoint: /order
         o Purpose: Submits order details to Sanity CMS.
Payload:
{
 "order_ld": 939,
 "order_Status": "Pending",
 "customerInfo": {
  "name": "any name",
  "phone": 12345678901,
  "address": "home address"
```

```
},
 "productDetail": {
  "quantity": 3,
  "price": 390
},
 "time_stamp": "new Date()",
 "paymentMethod": "COD"
}
   4. Track Shipment
          Method: GET
         o Endpoint: /shipment
         • Purpose: Retrieves shipment tracking information from a third-party API.
Response:
 "shipment_ld": "239889sh",
 "order_ld": 939,
 "status": "In Transit",
 "deliveryDate": "new Date()"
}
          0
```