

Marketplace_Builder_Hackathon_2025

DAY 2: PLANNING THE TECHNICAL FOUNDATION

1. Define Technical Requirements

Frontend Requirements:

1. User-friendly interface using Nextjs/tailwind css
2. Insuring responsive for all devices
3. Pages to include:
 - Home
 - About
 - Products
 - Product Details
 - Cart
 - Checkout
 - Order Confirmation

Sanity CMS as Backend:

- Sanity will acts as user database
- Design schema

Product

```
export default const Product = {
  name: 'Product',
  title: 'Product',
  type: 'document',
  fields: [
    { name: 'name', type: 'string', title: 'Product Name' },
    { name: 'description', type: 'string', title: 'Description' },
    { name: 'categories', type: 'string', title: 'Categories Name' },
    { name: 'tags', type: 'string', title: 'Tags' },
    { name: 'price', type: 'number', title: 'Price' },
    { name: 'stock', type: 'number', title: 'Stock Level' },
    { name: 'ratings', type: 'number', title: 'Ratings' },
    {
      name: 'img',
      title: 'Product Image',
      type: 'image',
      options: {
        hotspot: true,
```

```

    },
    fields: [
      {
        name: 'alt',
        title: 'Alt Text',
        type: 'string',
      },
    ],
  },
],
};

```

Order

```

export default const Order = { _id: string; productID: string; Quantity: number totalAmount:
number; orderDate: string }

```

Third-Party APIs:

1. Shipment tracking : shipengine api

2. Design System Architecture

[Frontend (Next.js)]

|

[Sanity CMS] -----> [Product Data API]

|

[Third-Party API] -----> [Shipment Tracking API]

|

[Payment Gateway]

3. Plan API Requirements

Endpoint Name: /products

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

Endpoint Name: /orders

- Method: POST
- Description: Create a new order in Sanity.
- Payload: Customer info, product details, payment status.

Endpoint Name: /shipment

- Method: GET
- Description: Track order status via third-party API.
- Response: Shipment ID, order ID, status, expected delivery date.