

Marketplace_Builder_Hackathon_2025

DAY 2 PLANNING THE TECHNICAL FOUNDATION

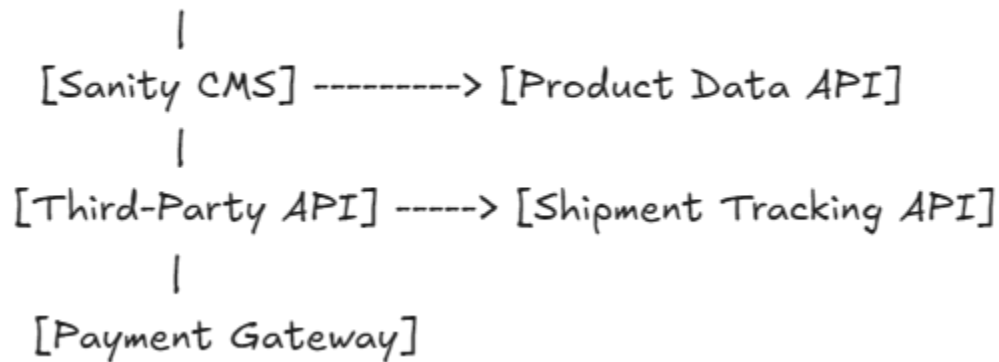
Day 2 Activities: Transitioning to Technical Planning

1. Define Technical Requirements

- Frontend Requirements(Nextjs/TailwindCSS):
 - User-friendly interface
 - Responsive design
 - The essential pages are Home, Product Listing, Product Details, Cart, Checkout, Order Confirmation, Contact Us, and Login/Signup.
- Sanity CMS as Backend:
 - Sanity acts as the database for your marketplace.
 - Focus on designing schemas in Sanity to align with the business goals
- Third-Party APIs:
 - Integrate APIs for shipment tracking, payment gateways, and other required backend services.
 - Ensure APIs provide the necessary data for frontend functionality

2. Design System Architecture

[Frontend (Next.js)]



3. Plan API Requirements

- Endpoint Name: /products
 - Method: GET
 - Description: Fetch all available product details from Sanity.
 - Response: product ID, product Name, Price, inventory, Category product Image, Colors, Status, Product Description.
- Endpoint Name: /checkout
 - Method: POST
 - Description: Create a new order in Sanity.
 - Payload: Order ID, Product ID, Quantity, Price
- Endpoint Name: /shipment
 - Method: GET
 - Description: Track order status via third-party API.
 - Response: Shipment ID, order ID, status.
- Endpoint Name: /customer
 - Method: POST
 - Description: get customer details
 - Response: Customer ID, Name, phone number, address

4. Sanity Schema

Product;

```
export const productSchema = {
  name: "product",
  title: "Product",
  type: "document",
  fields: [
    {
      name: "product ID",
      title: "product ID",
      type: "number",
    },
    {
      name: "productName",
      title: "Product Name",
      type: "string",
    },
    {
      name: "category",
      title: "Category",
      type: "string",
    },
    {
      name: "price",
      title: "Price",
      type: "number",
    },
    {
      name: "inventory",
      title: "Inventory",
      type: "number",
    },
    {
      name: "colors",
      title: "Colors",
      type: "array",
      of: [{ type: "string" }],
    },
    {
      name: "status",
      title: "Status",
      type: "string",
    },
  ],
}
```

```

    },
    {
      name: "image",
      title: "Image",
      type: "image",
      options: {
        hotspot: true,
      },
    },
    {
      name: "description",
      title: "Description",
      type: "text",
    },
    {
      name: "slug",
      type: "slug",
      title: "Slug",
      options: {
        source: "productName",
      },
    },
  ],
};

```

Checkout;

```

export const checkoutSchema = {
  name: "checkout",
  title: "Checkout",
  type: "document",
  fields: [
    {
      name: "productID",
      title: "product ID",
      type: "number",
    },
    {
      name: "orderID",
      title: "Order ID",
      type: "number",
    },
  ],
};

```

```
    },  
    {  
      name: "Quantity",  
      title: "Quantity",  
      type: "number",  
    },  
    {  
      name: "price",  
      title: "Price",  
      type: "number",  
    },  
  ],  
};
```

Shipment;

```
export const shipmentSchema = {  
  name: "shipment",  
  title: "Shipment",  
  type: "document",  
  fields: [  
    {  
      name: "shipmentID",  
      title: "Shipment ID",  
      type: "number",  
    },  
    {  
      name: "orderID",  
      title: "Order ID",  
      type: "number",  
    },  
    {  
      name: "status",  
      title: "Status",  
      type: "string",  
    },  
  ],  
};
```

Customer;

```
export const customerSchema = {
  name: "customer",
  title: "Customer",
  type: "document",
  fields: [
    {
      name: "customerID",
      title: "Customer ID",
      type: "number",
    },
    {
      name: "name",
      title: "Name",
      type: "string",
    },
    {
      name: "phoneNumber",
      title: "Phone Number",
      type: "number",
    },
    {
      name: "address",
      title: "Address",
      type: "string",
    },
  ],
};
```