# Marketplace Technical Foundation - Furniture E-commerce Platform

# 1. Define Technical Requirements For my Website:



1 .Pages To Implement



Signup /Login Page
HomePage
Product Listing Page
Product Detail Page
Cart Page
Wishlist
Checkout Page
Order Confirmation Page

- 2.Responsive Design
- 3. Smooth Navigation

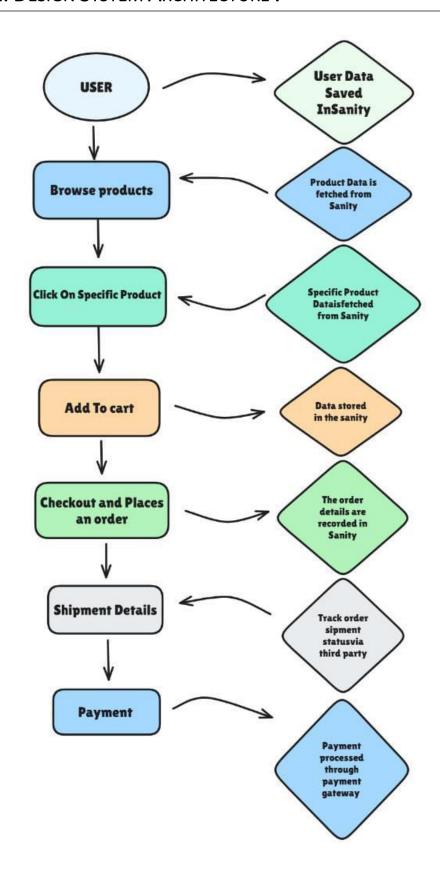


By using Sanity schema CustomerData, ProductData, OrderData, DeliveryZone and Paymnts are easily managed



-UseShipEngine for Shipment
tracking
-Use Stripe , Paypal for payment
gateways.
-Geolocation API for Delivery Zones

# 2. DESIGN SYSTEM ARCHITECTURE:



## PLANNING THE TECHNICAL FOUNDATION OF MY WEBSITE

## 1.1 Overview of this flowchart:

- -When a User come on my website , he will be provided with a good user interface , responsive design and smooth navigation.
- -He signup or login in the website and the Customer data will be stored in the sanity.
- -He browses the products, the data of products is fetched from sanity.
- -He clicks on a product, the detailed product data is fetched from Sanity.
- -Adds an item to the cart, the data in sanity updated.
- -Places an order, the order data is stored in the sanity.
- -For shipment details, we will fetch data from an external API.
- -Payment will be processed through payment gateways.. and confirmation will be provided to the customer.

# 3. PLAN FOR API REQUIREMENTS:

Endpoints	Method	Description	Response
/customer	POST	Update user detail in sanity	{id ,name , email , phone}
/products	<i>G</i> ET	Fetch all products	{id , name,price,stock,image}
/product/:id	<i>G</i> ET	Fetch data of specific product	{id,name,description,price,stock,category, size,material,weight,image}
/orders	POST	Create new order in sanity	{customerid,productdetail,totalprice}
/orders/:id	<i>G</i> ET	Fetch order detail by id	{orderid,customerid,productid,Quantity, Totalprice,orderdate,orderstatus, paymentstatus,shippingcost,deliverydate,discounts}
/shipment/:id	<i>G</i> ET	Track order shipment status via 3rd part	{shipmentid ,status, deliverydate}
/payment	POST	Process payment via gateways	{paymentid, orderid,paymentmethod, amount,paymentdate,paymentstatus}

# 4. SANITY SCHEMA EXAMPLE:

#### **EXAMPLE SCHEMA FOR PRODUCTS:**

export default

{ name: 'product',

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#### PLANNING THE TECHNICAL FOUNDATION OF MY WEBSITE

```
type: 'document',
fields: [
    { name: 'name', type: 'string', title: 'Product Name' },
    {name: 'description', type: 'string', title: 'ProductDescription'},
    { name: 'price', type: 'number', title: 'Price' },
    { name: 'stock', type: 'number', title: 'Stock Level' },
    {name: 'category', type: 'string', title: 'ProductCategory'},
    {name: 'size', type: 'number', title: 'ProductSize'},
    { name: 'images', title: 'Images', type: 'array', of: [{ type: "image" }] },
    {name: 'material', type: 'string', title: 'ProductMaterial'},
    {name: 'weight', type: 'number', title: 'ProductWeight'},
}
```

# 5. TECHNICAL ROADMAP:

#### **Steps to Complete the Project**

#### 1. Frontend Development:

- o Implement responsive UI using Next.js.
- Develop key pages (Signup/Login page ,Home, Product Listing, Product Details, Cart, Checkout, Order Confirmation).

## 2. Sanity CMS Configuration:

- o Set up Sanity CMS backend.
- o Design and implement schemas for products, orders, users .

### 3. API Integration:

- o Integrate Sanity APIs for product, cart, and order management.
- o Configure third-party APIs for shipment tracking and payment processing.

#### 4. Testing:

- Perform end-to-end testing of all workflows.
- o Ensure mobile and desktop compatibility.

## 5. **Deployment:**

Deploy to Vercel.

## PLANNING THE TECHNICAL FOUNDATION OF MY WEBSITE

o Configure and deploy Sanity backend.

## 2 Milestones and Deliverables

- Milestone 1: Complete frontend UI for core pages.
- Milestone 2: Configure Sanity schemas and integrate APIs.
- Milestone 3: Perform workflow testing and resolve issues.
- Milestone 4: Deploy and document the project for final submission.