

## DAY 2 - PLANNING THE TECHNICAL FOUNDATION.

### 1. Define Technical Requirements :

#### • FRONTEND :

- Responsive pages : Home, Product Listing, Product Details, Cart, Check out, Order Confirmation.
- Tools : React.js / Next.js for Interactivity.

#### • BACKEND (SANITY CMS) :

- Schemas : Products, Users, Order.

#### • THIRD PARTY APIs :

- Shipment Tracking, Email Notification.

#### • PAYMENT GATEWAY :

- Various Payments Options available.

### Explanation :

- Frontend : Place where the User Browse for the Product.
- Backend (Sanity CMS) : From where the system Processes & manages the data and Orders.
- Third Party APIs : API Processes the Payment and for Tracking the Shipment.

## 2. DESIGN SYSTEM ARCHITECTURE :

- Frontend communicates with Sanity CMS via REST or GraphQL.
- Sanity CMS manages data schemas.
- Third Party APIs handles Payments, shipping and email.

## 3. PLAN API REQUIREMENTS.

- Define endpoints:
  - / products (GET) : Fetch product details.
  - / orders (POST) : Place orders.
  - / shipment (GET) : Track shipments.

## 4. DOCUMENT TECHNICAL WORKFLOWS :

Document workflows such as interactions with product browsing, cart updates and order placements.

### SIMPLIFIED HUMANOID - STYLE :

Imagine a humanoid style illustrating the Technical foundation of my e-commerce marketplace.

- HEAD (FRONTEND) : Responsible for the User Interaction.
- HEART (SANITY CMS) : Central Data Storage and Schema Management.
- HANDS (THIRD PARTY APIs) : Handles Payments, Shipping and Notifications.
- LEGS (SYSTEM ARCHITECTURE) : Supports Data Flow between Components.
- FEET (DOCUMENTATION) : Solid Foundation for Workflows and APIs.





## WORK FLOWS INCLUDED :

### o PRODUCT BROWSING -

Frontend fetches product data from Sanity CMS.

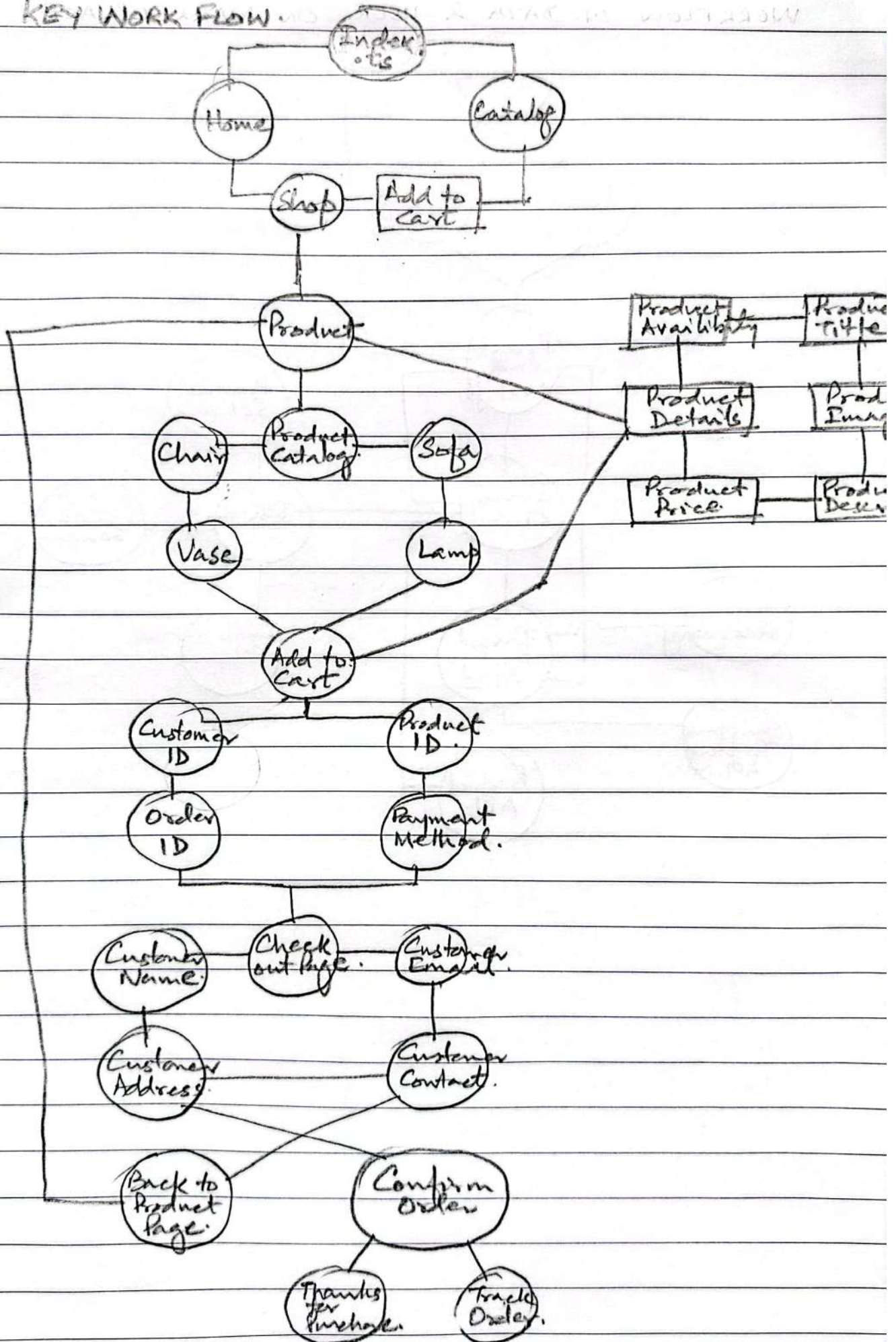
### o CART AND CHECKOUT :

User adds items to the cart, processes payment via an API and confirms the Order.

### o ORDER MANAGEMENT :

Sanity CMS records order data, shipping details are updated via third party APIs.

## KEY WORK FLOW





## WORKFLOW OF DATA &amp; USER ON MARKETPLACE.

