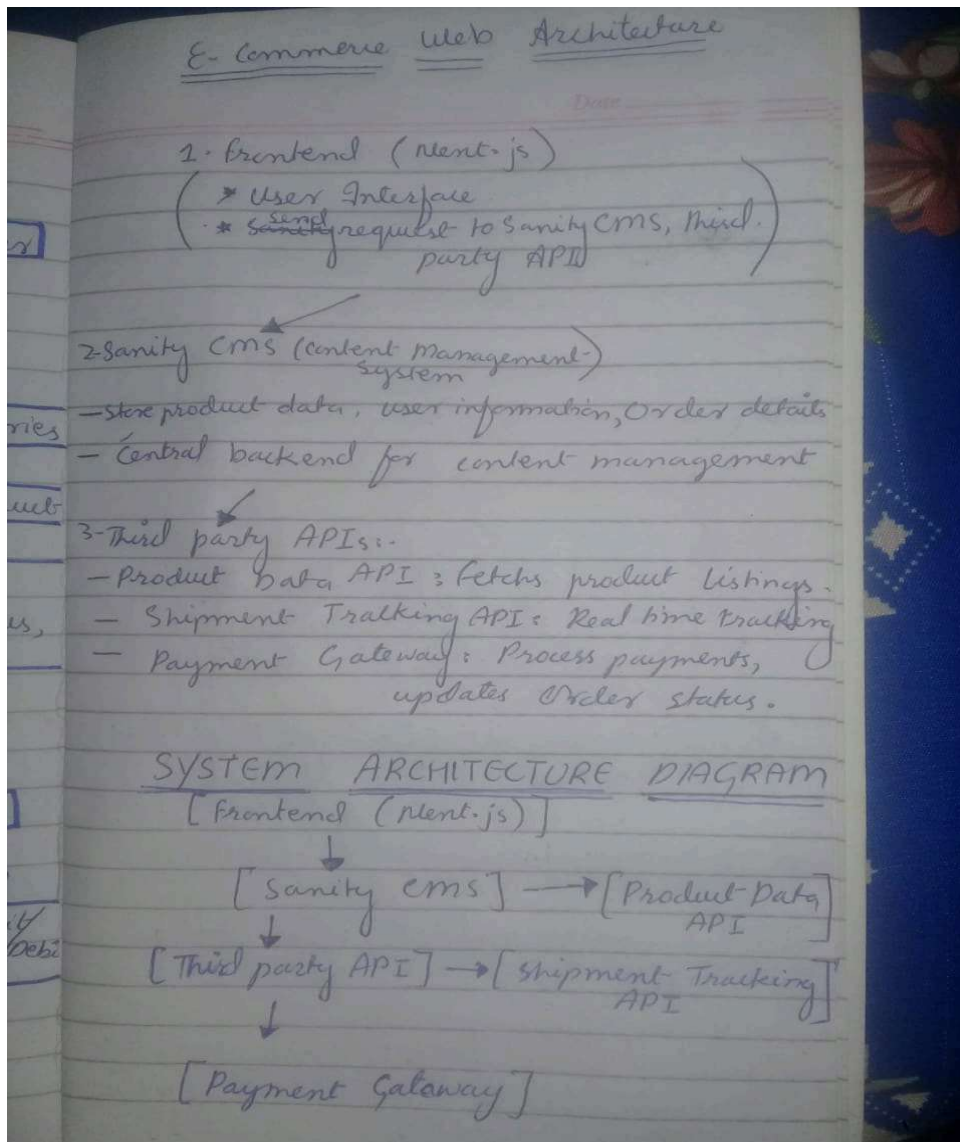**Rollno:00421518**   # HACKATHON 03

DAY 02

Marketplace Technical Foundation   Comforty E-commerce

Step 1:SYSTEM ARCHITECTURE:

Step 02:

Key workflow:

1-User Friendly interface for browsing products

This document describes the user journey flow for an eCommerce marketplace, focusing on key steps and their technical implementation. It is tailored for building a robust and user-friendly platform.

Below is the complete user journey flow for an eCommerce marketplace:

Home Page:

- User lands on the homepage.
- Displays featured products , top categories and popular products.

Product Details:

- User clicks on a product to view its details.
- Page includes product description, price, availability, and user reviews.

Add to Cart:

- User adds the product to the cart.
- Cart updates dynamically with quantity and price.

Checkout:

- User proceeds to the checkout page.
- Provides a shipping address and selects a delivery option.

Payment:

- User enters payment details.
- A secure payment gateway processes the transaction.

Order Confirmation:

- Order details are displayed and sent via email.
- Order status is updated in the backend.

Shipment Tracking:

- User visits the "Order History" section.
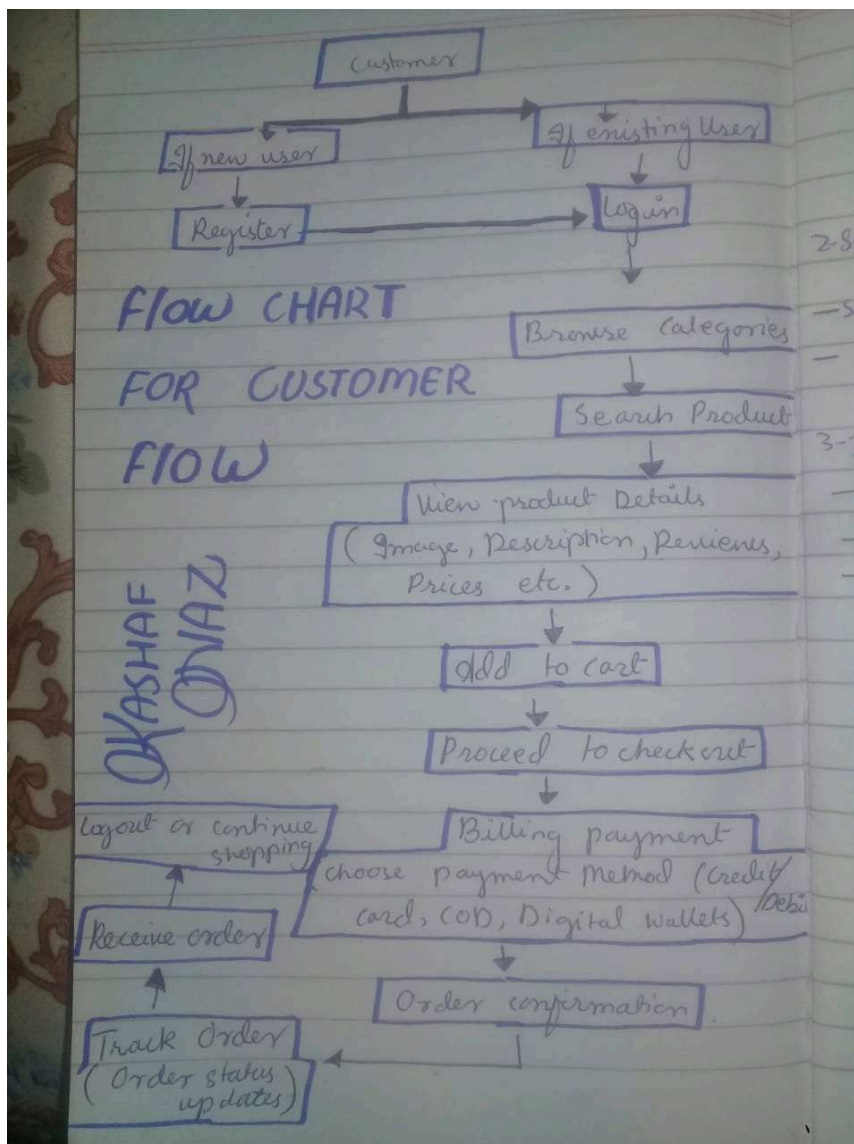- Real-time shipment tracking is enabled via API integration.

Delivery:

- Product is delivered to the user's address.

2-Responsive design for mobile and desktop user

3-Sanity CMS as backend

4-flowchart

STEP 03:

API Endpoints

API Endpoints for Comforty (Furniture E-Commerce Platform)

1. Fetch Products

- Endpoint Name: `/products`
- Method: GET
- Description: Retrieve all available chairs from the inventory.
- Response:{

    "id": "12345",

    "name": "Ergonomic Office Chair",

    "price": 150.99,

    "stock": 20,

    "image": "chair_image_url"

  }

2. Create an Order

- **Endpoint Name:** `/orders`
- **Method:** POST
- **Description:** Place a new order for chairs.

Payload:
  {

    "customer_id": "98765",

    "products": [

```
        { "id": "12345", "quantity": 2 }

      ],

      "payment_status": "Paid"

    }
```

- **Response:**

```
  {

    "order_id": "ORD67890",

     "status": "Order Confirmed"

    }
```

3. Track Shipment

- **Endpoint Name:** /shipment
- **Method:** GET
- **Description:** Get real-time shipment tracking details.

  Response:
```
  {

    "shipment_id": "SHIP12345",

    "order_id": "ORD67890",

    "status": "Out for Delivery",

    "expected_delivery": "2024-02-01"
```
- }

This API documentation ensures smooth integration and efficient data handling for Comforty.

Step 04:

Sanity schema:

```
import { defineType } from "sanity";


export const productSchema = defineType({

  name: "products",

  title: "Products",

  type: "document",

  fields: [

    {

      name: "title",

      title: "Product Title",

      type: "string",

    },

    {

      name: "price",

      title: "Price",

      type: "number",

    },

    {

      title: "Price without Discount",

      name: "priceWithoutDiscount",

      type: "number",
```

```
    },
    {
      name: "badge",
      title: "Badge",
      type: "string",
    },
    {
      name: "image",
      title: "Product Image",
      type: "image",
    },
    {
      name: "category",
      title: "Category",
      type: "reference",
      to: [{ type: "categories" }],
    },
    {
      name: "description",
      title: "Product Description",
      type: "text",
    },
    {
```

```
      name: "inventory",

      title: "Inventory Management",

      type: "number",

    },

    {

      name: "tags",

      title: "Tags",

      type: "array",

      of: [{ type: "string" }],

      options: {

        list: [

          { title: "Featured", value: "featured" },

          {

            title: "Follow products and discounts on Instagram",

            value: "instagram",

          },

          { title: "Gallery", value: "gallery" },

        ],

      },

    },

  ],

});
```