

- 01 -

Hackathon 3

Day 2:

Planning the Technical Foundations:

Planning the Technical foundation is the process of designing the core technological structure and system required for an e-commerce marketplace ensure integration of system for performance, security and scalability.

"Marketplace Technical Foundation"

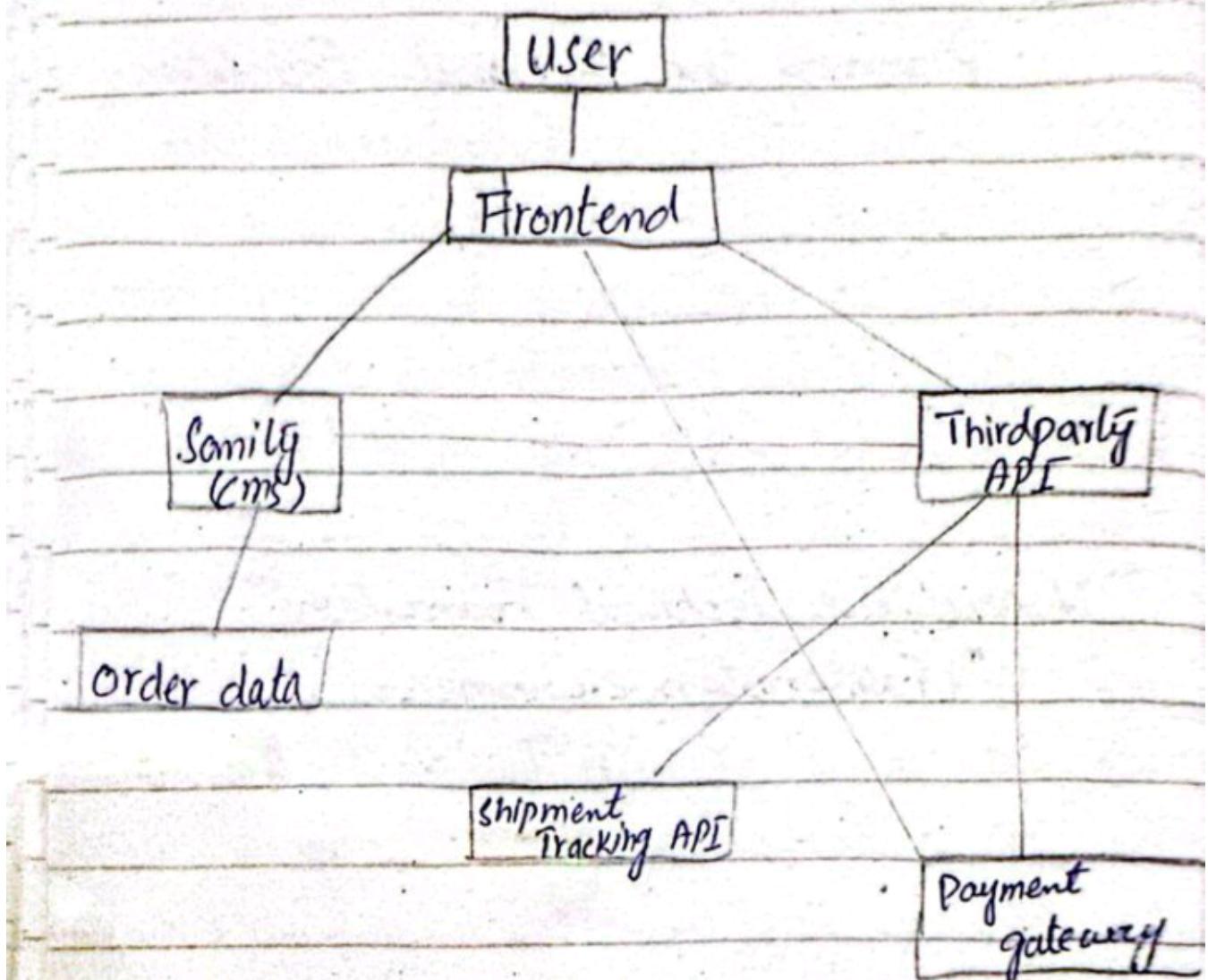
"[Fashionistan e-commerce]"

My document describes the user journey flow for an e-commerce market place by outlining the step by step interaction a user experiences on the platform.

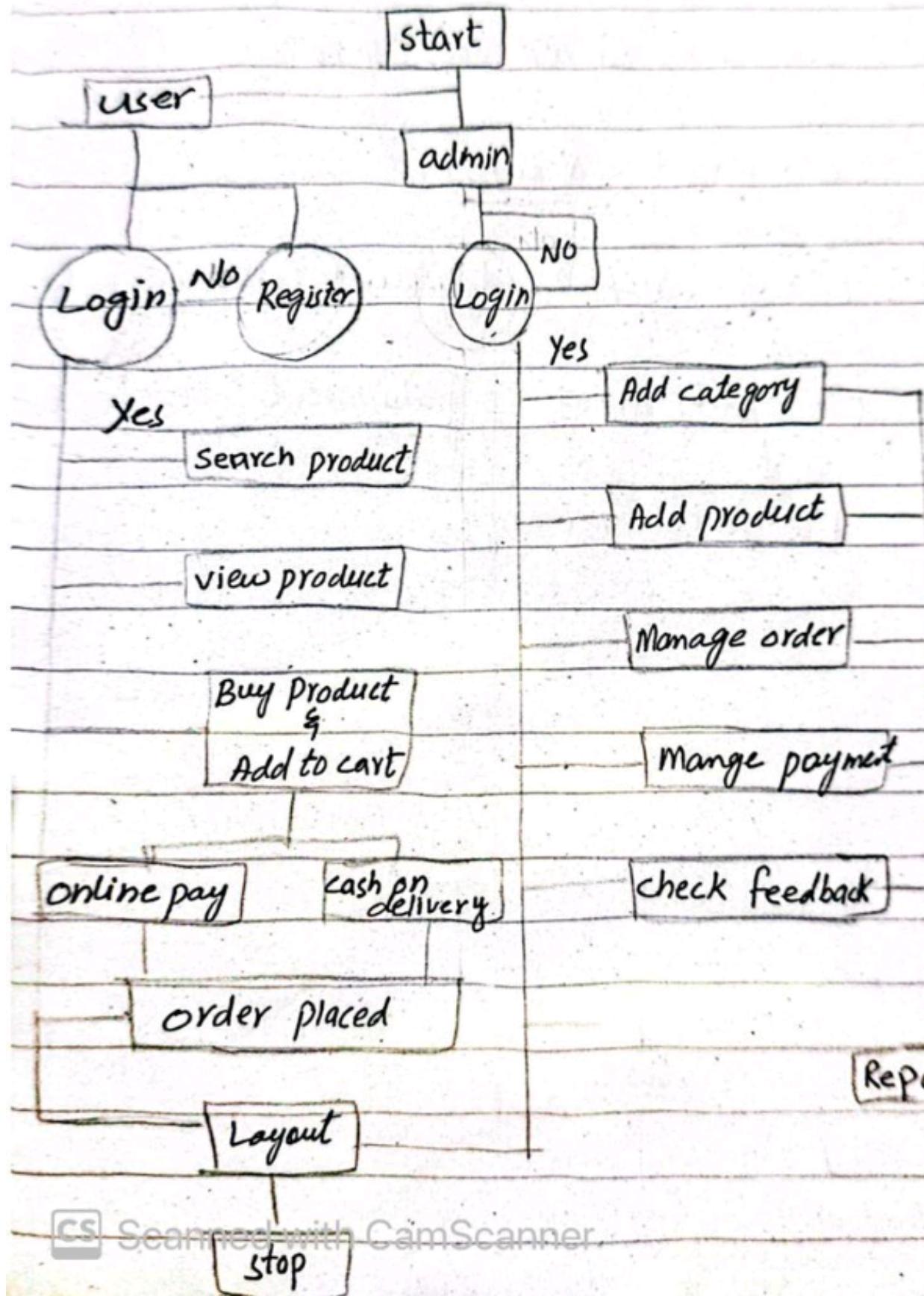
Frontened Requirements:

Flowchart Overview

"Planning Technical Foundation.



Flowchart



Design System Architectures:

System Architecture Overview

[frontend (Next.js)]



[Security CMS] → [Product Data API]

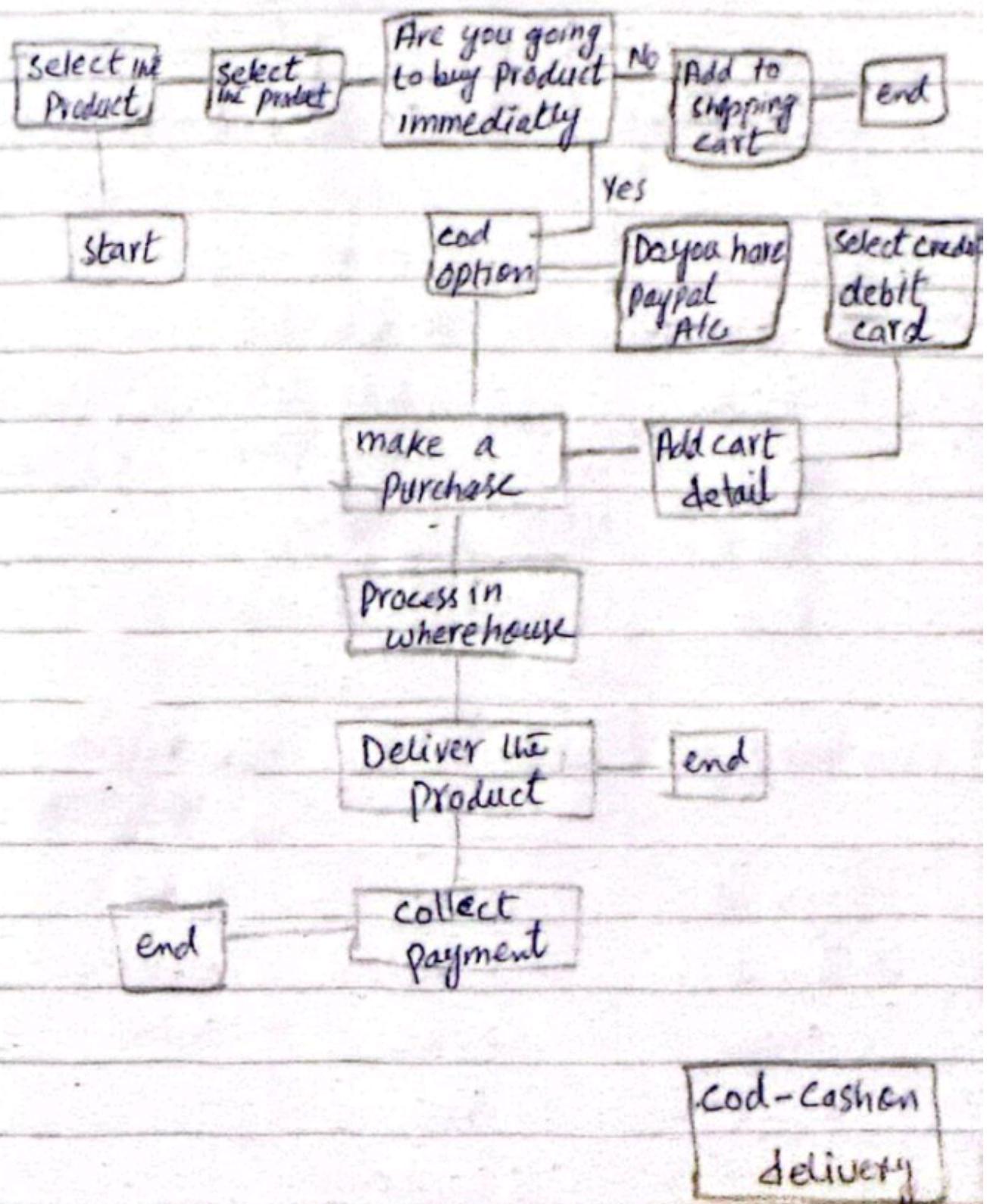


[Thirdparty APIs] → [Shipment Tracking API]



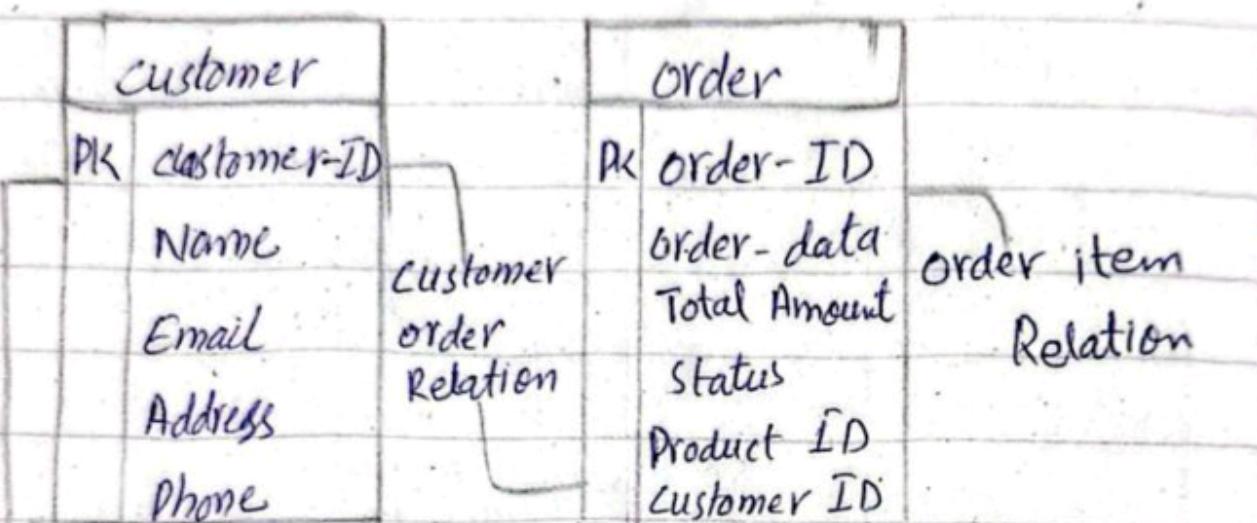
[Payment Gateway]

Diagram:

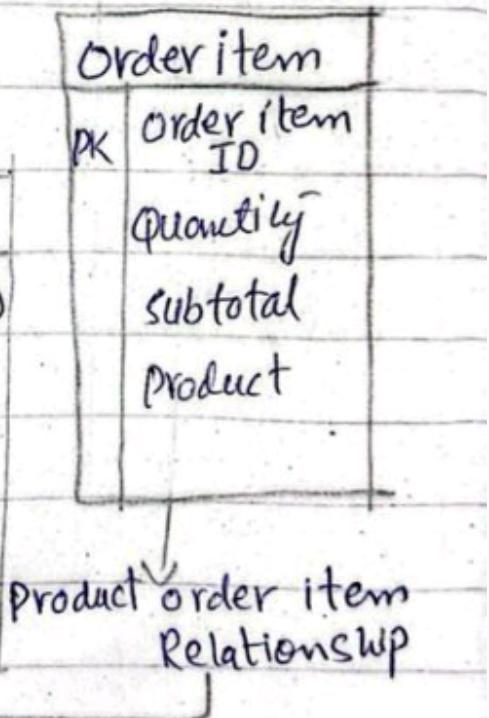


E-commerce Requirement

- ER Diagram Sample for Ecommerce project



customer payment Relationship



Plan API Requirement

General Ecommerce Marketplace

1. Endpoint / Product

Method: Get

Description: Select the item

Response:

{

Product Name: "Maxi/frock",

Quantity : 1,

Price : 5000,

Color : "Black | blue | white",

Size : "S, M, L",

}

2. - Endpoint / order

Method: Get

Description: Create a new order.

Response:

{ "Product ID": "Maxi/frock"

"Quantity": 1,

"Total Amount": 5000,

"Order Date": 17-01-2025

API Endpoints: Y/SX

End point	Method	Description	Parameter	Response Example
/api/clothes	GET	Fetch all clothes items	None	{ id: 1 name: maxi }
/api/clothes/ id	GET	Fetch a single item	Id (path)	{ id: 1 name: skirt }
/api/clothes/ post	POST	Add a new clothes item	name: Price category: (Body)	{ success: true id: 5 }
/api/clothes/ Id	PUT	update a clothes item	id (path) name Price (Body)	{ success: true }
/api/clothes/ Id	DELETE	Delete a clothes item	Id (path)	{ success: true }
/api/category	GET	Fetch all clothing category	Name	{ categories: [shirt] }

3.

3. Endpoint /shipment

Method : Get

Description : Track shipment status for order

Response :

{

"Id": "Ship-10",

"Order": {

 "Id": "order-10",

 "Total Amount": 5000,

}

 "trackingnumber": "track-10",

 "Status": "in Transit",

 "Estimated delivery": 21-01-2025

}



Technical Document .

