Name :- Palwasha
Roll No :-

DAY-02
Planing the Technical Foundation :-

General E-Commerce Website :-

① Define Technical Requisements :-

⊙ Easy to use interface for browsing Products.

⊙ Responsive Design for costumers on desktop & mobile Phone users.

⊙ Essential Pages:

• Home Page => Main Overview, Sales, Highlights, Header, Footer, slides, Recommendation, etc

• Product Listing => Products list (Prices, category, etc), Header Footer, etc

• About us Page => Some lines about us, etc

• Contact Page => Comment section, Address, Phone,

• Product Detail Page => High quality image, detailed Description (seviews, stock, etc), Related Products.

• Cart & Checkout => Order History, Billing Details, Transaction Details.

CamScanner

- Order Confirmation Page => Some statement like, "Your order has been confirmed".
- SlideBar => Order History, Total Amount.
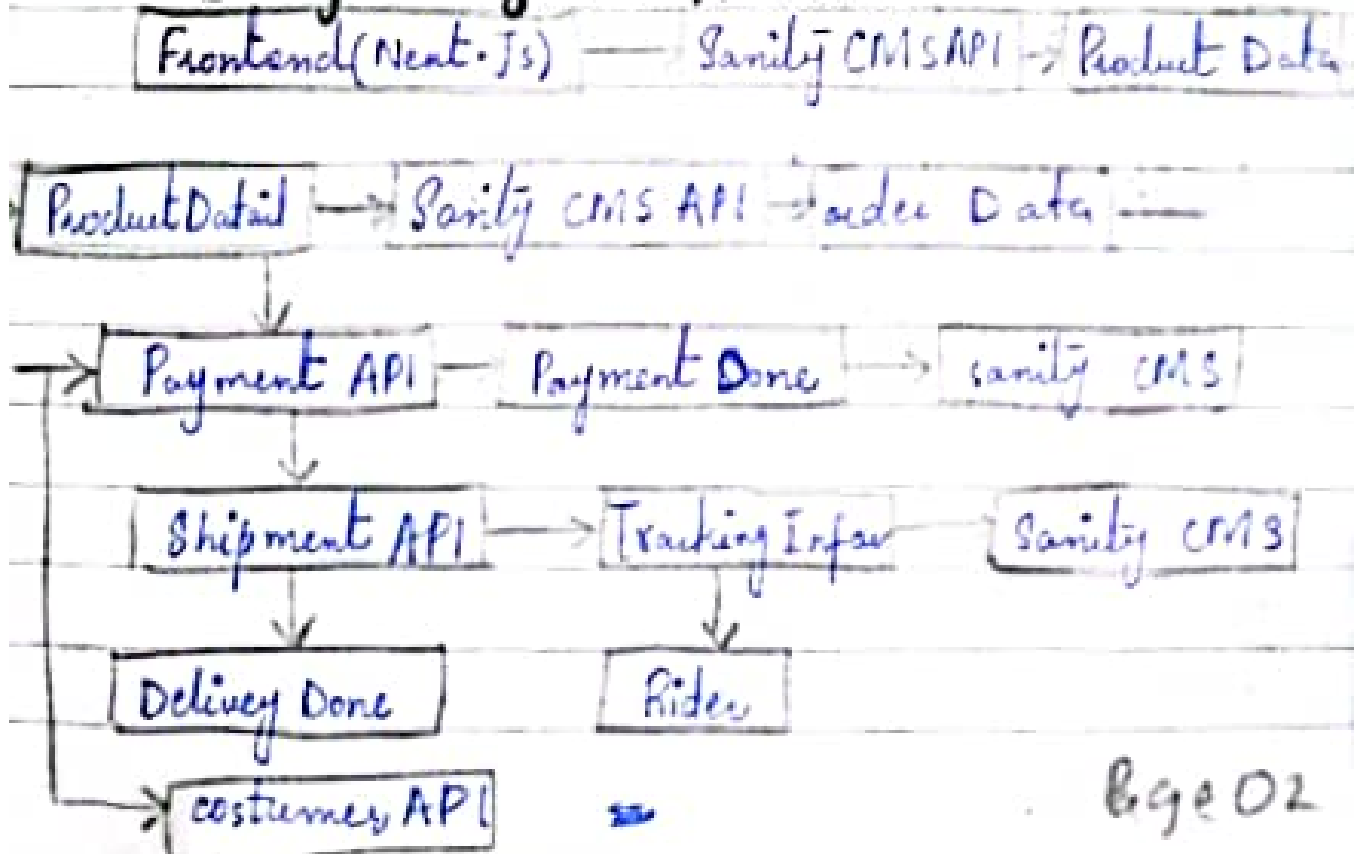- Wishlist => Some Products, Description, Price, etc.

◆ Sanity CMS as Backend:-

- We use sanity for managing Data; like Products data, costumers data, order Details, user Profiles etc.

◆ Third Party APIs:-

- We use Third Party APIs for save time, by adding ready-made features.

② Design System Architecture:-

| Frontend(Neat.Js) — Sanity CMS API → Product Data |

| Product Detail | → Sanity CMS API → order Data ——

| Payment API | — | Payment Done | → | sanity CMS |

| Shipment API | → | Tracking Infar | | Sanity CMS |

| Delivery Done | | Rider |

→ | costumer API |

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◆ Key WorkFlow to Include:-

• **User Registrations:-**
  User Sign-up → details stored in Sanity →
  verified via E-mail of confirmation.

• **Product Browsing:-**
  Product Data fetch from Sanity → User.
  view Product → fetched data show on
  frontend.

• **Order Placement:-**
  Items add to Cart → Checkout Proiewed v
  via Payment → Order saved in Sanity..

• **Shipment Tracking:-**
  Order Status update → User get Order.

③ Plan API Requirements:-

End Point	Method	Purpose
/Products	GET	Fetch all Products
/orders	POST	Create a new order
/Shipment	GET	Track order / Status
/categories	GET	Fetch all Pro-category
/orderdone	DELETE	Remove that Retail
/register	POST	Register a new user
/Payment	POST	Process Payment

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④ Write Technical Documentation :-

System Architecture Document :-
- Frontend ⟹ Handles user interface & Client-side functionality.
- Backend ⟹ API communication, Sanity, data Processing, bussiness logic
- Sanity CMS ⟹ Manages data of products, costumers etc.
- APIs ⟹ Additional functionalities, Payment, delivery Tracking, Login Info of user authentication.

Key Workflows :-
(Page ⟶ 03).

Category-Specific Instructions :-
(Day ⟶ 01)

API Endpoints :-
(Page ⟶ 03)

Sanity Schema Example :-

```
export default {
    name: 'Product',
    type: 'document',
    fields: [
        {name:'name', type:'string', title: 'Product Name'},
        {name: 'Price', type: 'number', title: 'Price'},
        {name: 'image', type: 'image', title: 'Product Image'},
    ];
};
```

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