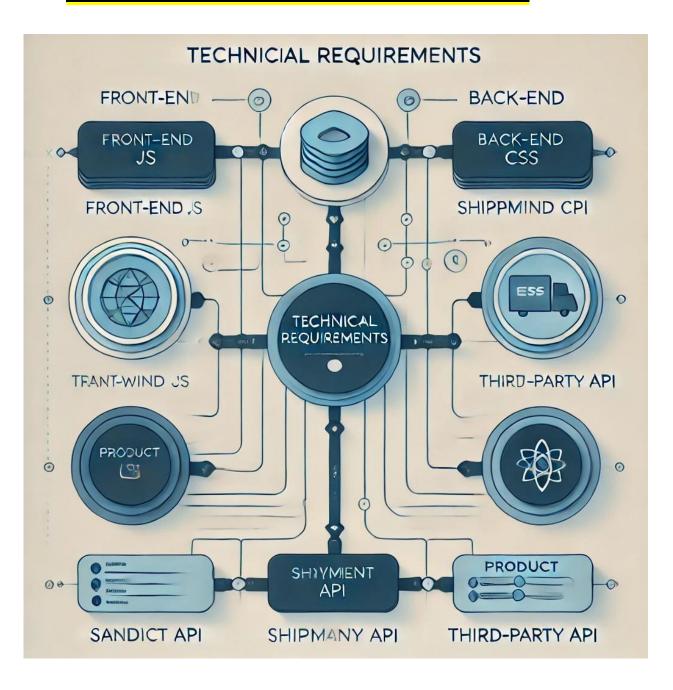
Day 2 Activities: Transitioning to Technical Planning

For e-commerce website Figma Template:

https://figma4template.vercel.app/

1. Define Technical Requirements:-



Frontend Requirements (NEXT.JS + TAILWIND CSS)

User-Friendly Interface

- Intuitive and visually appealing design to enhance user experience.
- · Features like:
 - Search bar for easy product discovery.
 - Category filters for refining searches.

Responsive Design

- Flexible layouts and optimized images to improve load time and usability.
- Use libraries like **Tailwind CSS** for responsiveness.

Purpose:

- O SSR (Server-Side Rendering) for better SEO and performance.
- O Dynamic routing for pages like products, categories, and user profiles.

Pages:

- 1) Landing Page with all its product components.
- 2) Shop Cart
- 3) Shop List
- 4) Shop Grid Default
- 5) Order Complete
- 6) Products
- 7) Product Details
- 8) Check out
- 9) Shipping

Sanity CMS as Backend:

Sanity CMS provides a powerful and flexible solution for managing product data, customer details, and order records. Here's how you can leverage it for your marketplace:

Key Features

Centralized Content Management:

Real-time Updates:

Scalable Schemas:

API:

Use Sanity's GraphQL and GROQ gueries to fetch data efficiently.

- o Product API
- Shipment API
- Payment API

Third-Party APIs:

Integrating third-party APIs ensures that your marketplace has the necessary functionality for shipment tracking, payments, and other backend services

1. Shipment Tracking APIs Integration

Features:

- Fetch tracking details using an order's shipment ID.
- Provide real-time updates on delivery status.
- Show estimated delivery dates on the frontend.

2. Payment Gateway APIs

To enable secure and seamless transactions.

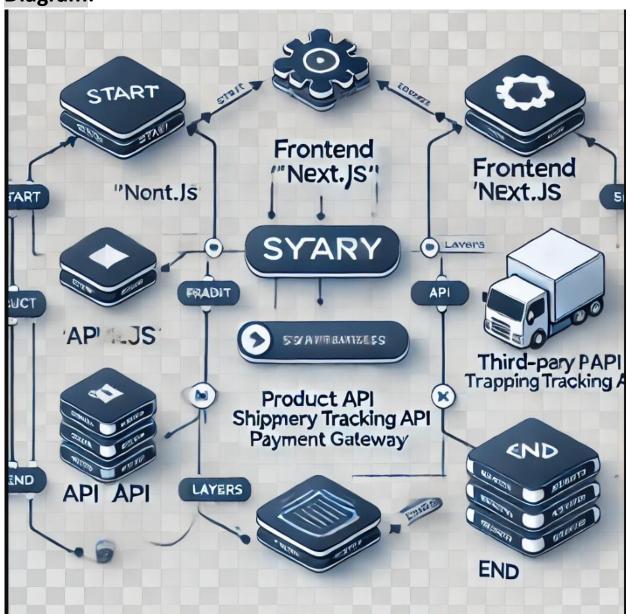
Features:

- Support for various payment methods (credit cards, wallets, UPI, etc.).
- Payment status updates for the order (e.g., Pending, Paid, Failed).

• Webhooks for real-time updates on payment success/failure.

SystemArchitecture OverView:

Diagram:



2: Design System Architecture

- [Frontend (Next.js)] ----> [Sanity CMS]
- ||||[Payment Gateway] [Third-Party APIs]

• || [User Notifications] <-> [Shipment Tracking]

3: Plan API Requirements:

APIEndPoints.xlsx

	A	В	С	D	Е	F	G	Н	- 1	J
1	Endpoint	Method	Purpose	Response Example						
2	/api/register	POST	Register a new user account.	{ "message": "User registered successfully", "userId": "12345" }						
3	/api/login	POST	Log in a user and generate an authentication token.	{ "token": "abcdef123	45", "userl	d": "12345"	}			
4	/api/logout	POST	Log out a user and invalidate the token.	{ "message": "User log	gged out su	ccessfully"	}			
5	/api/products	GET	Fetch all available products.	[{ "id": "1", "name": "	Product A"	, "price": 10	00}]			
6	/api/products/{id}	GET	Fetch details of a specific product by its ID.	{ "id": "1", "name": "Product A", "price": 100, "details": "Product details" }						
7	/api/cart	GET	Fetch the current items in the user's cart.	[{ "productId": "1", "n	ame": "Pro	oduct A", "q	uantity": 2	}]		
8	/api/cart	POST	Add items to the user's cart.	{ "message": "Product added to cart", "cart": { "productId": "1", "quantity": 2 } }						
9	/api/checkout	POST	Proceed to checkout and create an order.	{ "orderId": "ORD1234	15", "status	s": "Order c	reated" }			
10	/api/shipment	GET	Track the status of a shipment.	{ "shipmentId": "SHIP12345", "status": "In Transit", "expectedDelivery": "2025-01-25" }						
11	/api/payment	POST	Process payment for an order.	{ "paymentId": "PAY12	2345", "sta	tus": "Succe	ess" }			
12	/api/order-status	GET	Retrieve the status of an order by its ID.	{ "orderId": "ORD12345", "status": "Processing" }						
13	/api/orders	GET	Fetch a list of all orders for a user.	[{ "orderId": "ORD12345", "status": "Delivered", "totalAmount": 100 }]						
14										
15										

WORK FLOW DIAGRAM:

