

DAY 2: PLANNING THE TECHNICAL FOUNDATION

"Marketplace Technical Foundation – Pak-Chair"

- **Frontend Requirements:**
 - User-friendly interface for browsing products.
 - Responsive design for mobile and desktop users.
 - Essential pages: Home, Product Listing, Product Details, Cart, Checkout, and Order Confirmation.
- **Sanity CMS as Backend:**
 - Use Sanity CMS to manage product data, customer details, and order records.
 - Design schemas in Sanity to align with business goals.
- **Third-Party APIs:**
 - Integrate APIs for shipment tracking, payment gateways, and other backend services.
- **Design System Architecture**

• Design System Architecture :-

[Frontend (Next.js)]

Clerk -----> [Authentication, Authorization]

Sanity -----> [Product Data API,
Form Submission]

Stripe / API Keys -----> [Payment gateway]

• Key Workflow :-

1. User Registration:

- User sign up -> Data store in clerk -> Confirmation sent to the user.

2. Product Browsing:

- User views product ---> Sanity API fetches data -> Product display on frontend.

3. Payment Gateway:

- User adds item to the cart -> Proceed to checkout
Order detail sent in Stripe.

Plan API Requirements:

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Endpoint Name	Method	Description	Response Example
/product	Get	Fetch all products from security	{ "id": 1, "name": "Product A" }
/order	Post	Create third party API - /stripe	{ "confirmation": 789, "status": "Success" }
/shipment	Get	Track order via third party API	{ "orderId": 123, "status": "In transit", "ETA": "15 mins" }

General eCommerce Example:

- Endpoint Name: /Products
- Methods: Get
- Description: Fetch all product details
- Response Example: { "id": 1, "name": "Product", "price": 100 }

Technical Documentation:

User can visit website without account creation .For buy some thing user create account.User sign in and account create in **Clerk**. All the prouduct detail,price,tag data coming from **sanity**. For payment gateway **stripe** is used and third party api use.Contact forms and post data save in **sanity**.