Technical Plan

(1) System Architecture Breakdown:

1. User interaction

Action include:
- Signing up
- Logging in
- Browsing Products
- Managing the cart
- Placing Orders

(i) Authentication API
(user signup/login)

(2) Front-end
- Framework: Next.js
- Styling: Tailwind CSS
- Provides UI for User interactions request

(ii) Sanity CMS API
(fetch product & user data)
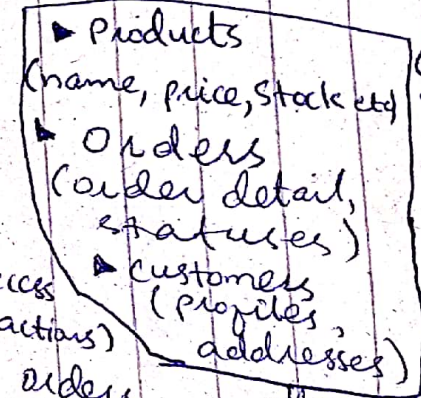
(iii) 3rd-party API
→ (payment processing & shipping updates)

(3) Authentication API
- Manage user authentication (sign up/sign in process)
- Issues tokens for session update
- Validate user credential (provide secure access to restricted actions) e.g. Placing orders

(4) Sanity CMS
Act as a back-end database for:
- Products (name, price, stock etc)
- Orders (order detail, statures)
- customers (profiles, addresses)

- front-end fetches & updates this data based on user-interactions

(5) API's
- Payment API
- Shipping API

user (places an order)

(5) **API's**

Payment API   **Shipping API**

User
Places an order

Payment Process start

• Handle secure
transactions   notifies the frontend
                    of the payment status

real-time updates
for order delivery
tracking

front-end fetch
& display updates
to users.