Day 2 - Technical Planning

1. Define frontend requirements:

Pages: Home, Product Listing, Product Details, Cart, Checkout
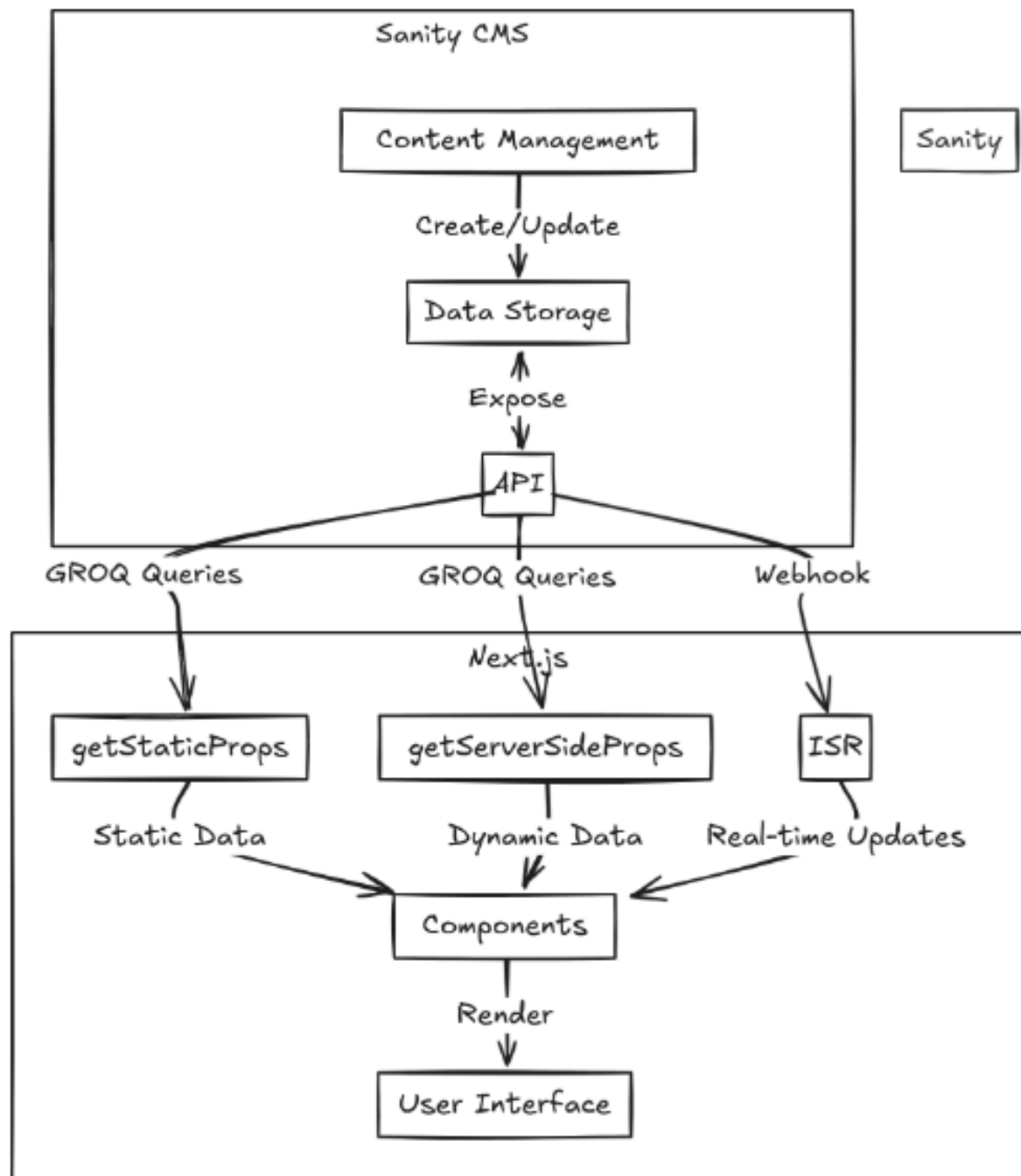
User

unauthorized user

user will get authorized

Product

id
name
price
stock
description
images
category
style
slug
rating
price
reviews
colors
sizes
tags
isNewArrival
isTopSelling
productDetails
faqs
inventory

Cart

Unauthorized user

Product

id
name
description
price
originalPrice
invenroty

Order Summary

product name
image
price
quantity
discounts
total

Checkout

User

customerId
name
email
phone
adderess
city
state
zipCode

Products

id, name, price, quantity

2. Plan schemas in Sanity CMS:
Create schemas for Products, Customers, Orders

Frontend	Backend	APIs	Tools
• **Next.js** For building modern, dynamic, and server-rendered UIs. • **Tailwind** For responsive and visually appealing designs. • **ShadcnUI** For pre-designed, customizable components.	• **Sanity CMS** To manage and structure content effectively. • **Clerk** For seamless user authentication and management.	• **ShipEngine** Simplifies shipment tracking and delivery. • **Stripe** Handles secure and efficient online payments.	• **GitHub** Version control and collaborative development. • **Postman** For testing and documenting APIs efficiently. • **Vercel** Fast and reliable deployment for Next.js applications.

3. Draw system architecture diagram:
Show interactions between Frontend, Sanity CMS, and APIs

Diagram: Sanity CMS
- Content Management → (Create/Update) → Data Storage
- Data Storage ↔ (Expose) → API
- API → (GROQ Queries) → getStaticProps → (Static Data) → Components
- API → (GROQ Queries / Next.js) → getServerSideProps → (Dynamic Data) → Components
- API → (Webhook) → ISR → (Real-time Updates) → Components
- Components → (Render) → User Interface
- Sanity

4. Define API requirements:
      a. Endpoints: e.g., GET /create-order, POST /submit-review

      b. Payloads and expected responses

Marketplace Self Validation Checklist by Alishba Meraj