

# Planning the technical Foundation

\* Here is some tool libraries to build an e-commerce website for chairs and sofas:

## Frontend :

I use "Nextjs" for frontend.

Why Nextjs?

\* Because Built on React and and SEO-Friendly.

• Perfect for Server-Side Rendering (SSR) and Static Site Generation.

• Lightweight and fast for e-commerce websites.

\* Tailwind CSS : Utility - First CSS framework for quickly designing responsive



and visually appealing layouts.

## Backend:

Sanity CMS:

- to manage product data, customer details and other records.
- Fetching data using GraphQL Query to display data in UI also handle Order details, User info.

## \* Interaction b/w Frontend/Backend

• Rest Api:

Next.js fetches data from the CMS.

## Api Setup :

- Using Api's for shipment tracking, payment gateway, and other backend requirements.
- Using Api for data fetch in sanity then render it on UI.

## Dynamic Routing :

- Using Dynamic routing to auto routing every product using slug which catch the product.
- You can use id or name for this as well like in url its like product details



## General e-Commerce Example:

1. Endpoint Name: Shop
2. Explanation:

Now if you go on route it fetch all the data from Api or if you use Sanity so it fetch data from Sanity.

## Data Schema:

1. Even if you have Api you have to define Schema in sanity folder.

exp: (Customer, Order) { userid, username  
userphone, useremail }

exp : (Product, ProductDetails) :

{product id, product name, product quantity  
product image, product price }

## End Points :

1. Name : products

Method : GET

Description : it fetch all product data <sup>from</sup> Sanity  
exp : Product details {id, name, description  
price, quantity, sizes, colors}.

2. Endpoint Name : orders

Method : POST

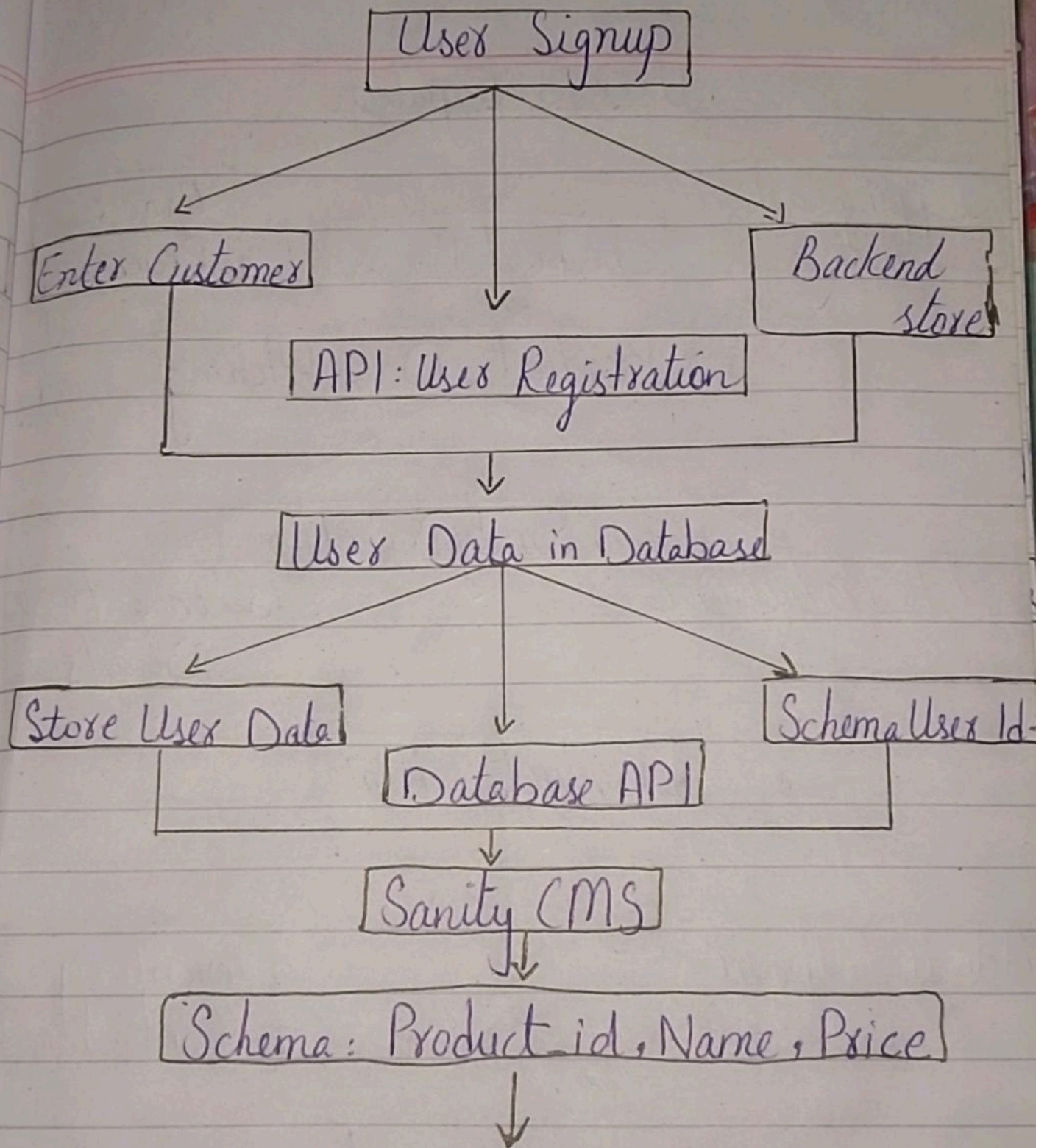
Description : it create the user order in  
Sanity cms.

For example : Customer info, id, name,  
phone!

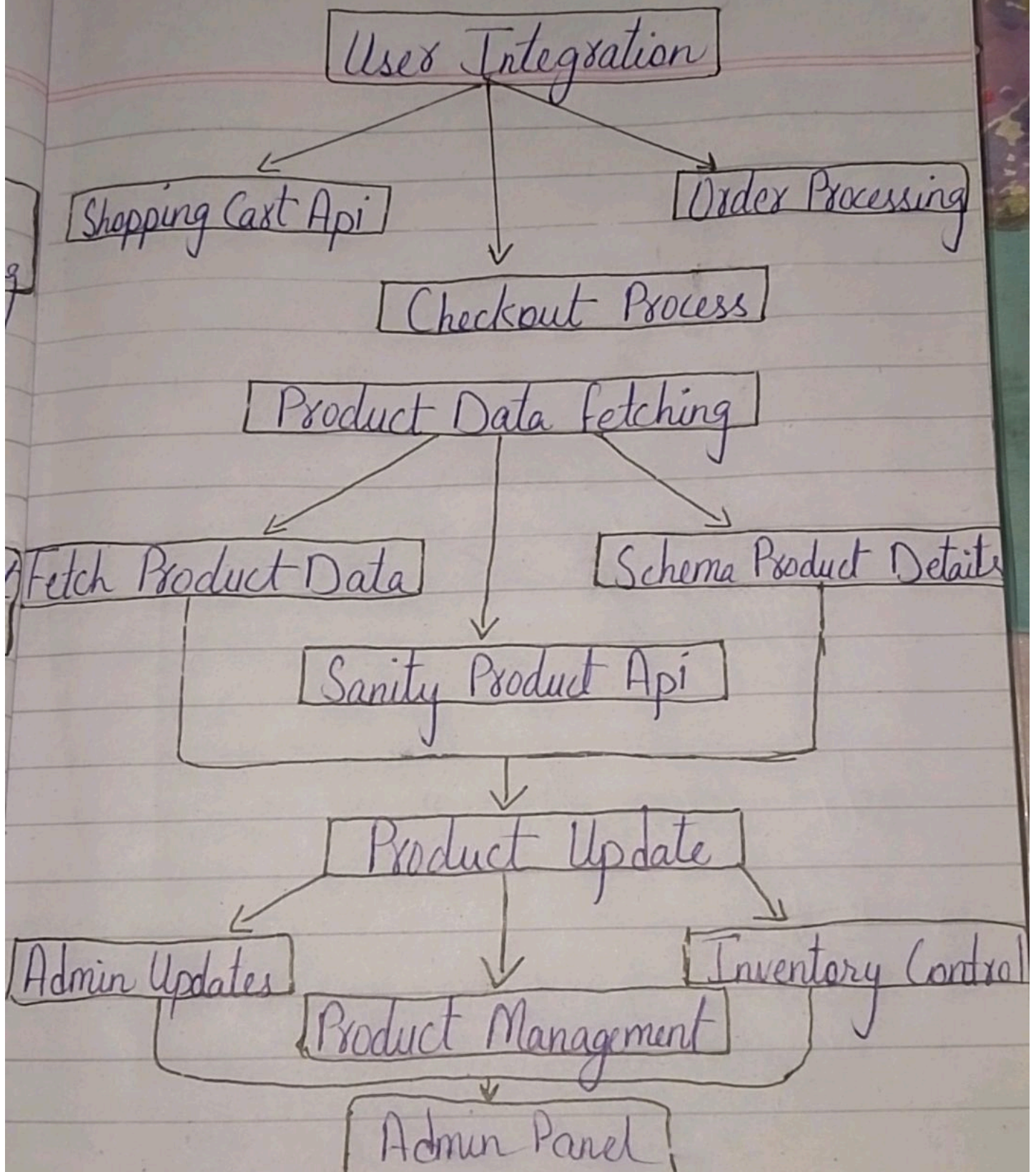


## Payment Method:

1. Worldwide: Using Payment Methods like Stripe, Paypal Etc.
2. In Pakistan: In Pakistan there are some payment methods like HBL Pay Checkout HBL, Jazzcash, Easypaisa etc.









1. Structure the Components, routes, UI constants, and schema types for a cosmetic product site:

## Components :

1. Navbar
2. Footer
3. Product Card
4. Product Details
6. Product Search bar
7. Blog Section
8. Social Media Links
9. Product Filters (Category, Price, Brand)
10. Sale Banner

## Routes :

1. Blog
2. Cart
3. Checkout
4. Contact
5. Shop
6. Hero
7. Featured Products
8. Blog Center
9. Customer Reviews
10. About Us

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## UI Elements :

1. Badge
2. Button
3. Card



4. Input Field
5. Label
6. Add Product Button
7. Product Sorting (by price, rating)
8. Cart Totals
10. Product Image Gallery
11. Product Quantity Selector.

### Constants :

1. Select Category
2. Separator
3. Tabs (for product details, reviews)
4. Textarea (for reviews)
5. Product Discounts
6. Price Formatting