

Hackathon 3

Date _____ 20 _____

Day: 02

Planning THE Technical Foundation (Nikely)

1) Things for Development:-

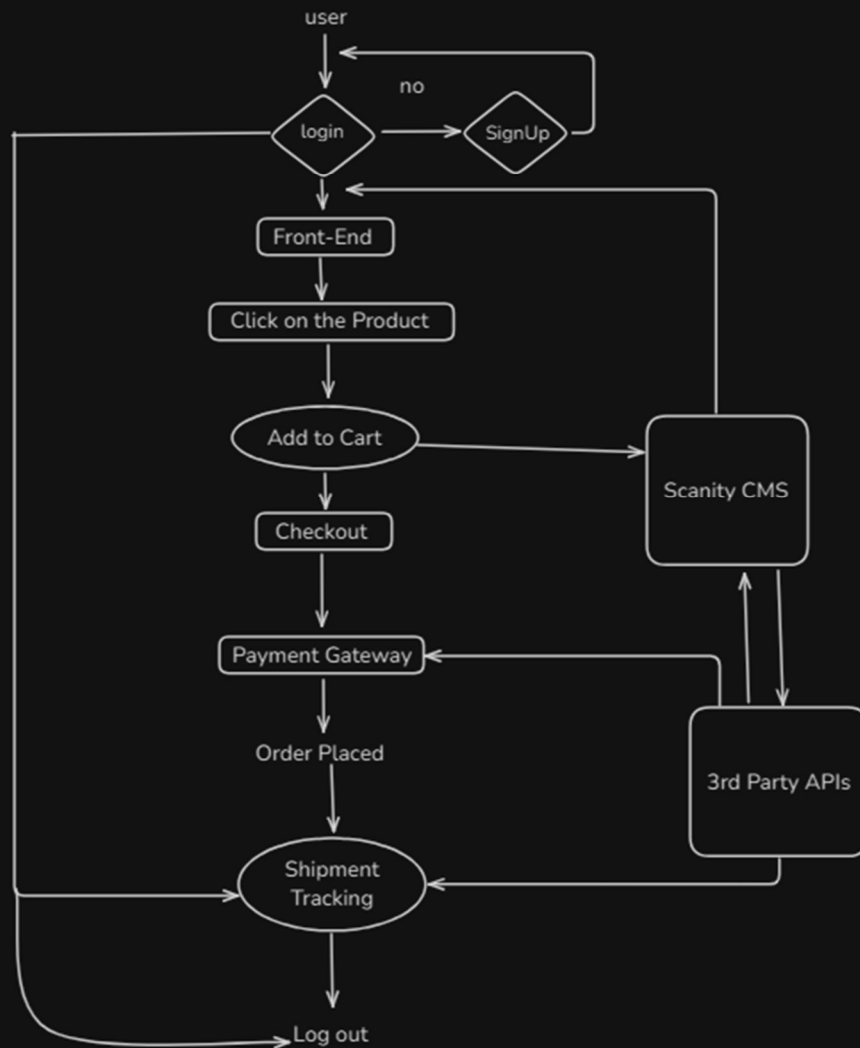
↳ Frontend :-

The frontend is the layer where interacts, that using NextJS and making it user-friendly and Responsive we will use Tailwind CSS that it will work smoothly on mobiles and desktops. It will consist of every essential pages.

→ Scanity CMS:-

Scanity CMS will be as core for our Store, where all assets and data of product details, Customer details, orders and inventory data is kept there and also we will utilize Scanity CMS for checking order status with APIs and product descriptions.

System Architecture



→ Third party APIs:-

↳ Payment Gateway (Stripe or PayPal):
These are best for every payment from anywhere from the world safe and secure.

↳ Shipment Tracking API (Ship Engine):
It gives you schedule and stages of a product before reaching to you.

↳ Google Geolocation API:-
To get the location of drone on the map.

↳ Live tracking API (Next Billion.ai):-
It gives the exact location of drone that where it is on the way.

↳ Authentication API (Clerk or OAuth 2.0):-
These both are best APIs for login and Signup safely and securely.

3) API Requirement:-

General E-Commerce (NIKE):-

- Endpoint Name: /Products
- Method: Get
- Description: Fetch all product listings of Nike

Response Example:-

```

import { sanityFetch } from "@sanity/lib/fetch";
import { allproducts } from "@sanity/lib/queries";
import Image from "next/image";

type Product = {
  _id : string;
  productName: string;
  description : string;
  price : number;
  imageUrl : string;
  status:string;
  colors:string;
  category:string
}

export default async function Home () {
  const products : Product[] = await sanityFetch({
    query : allproducts})

  return (
    <div className=
"bg-backgroundw text-buttoncolor grid grid-cols-3 gap
-[10px] gap-y-[18px] pl-[308px] pr-[56px] pt-[142px]"
>
      {
        products.map((product) => (
          <div className="w-[348px] h-[533px]" key={
product._id}>
            <Image src={product.imageUrl} width={348}
height={348} alt="" />
            <h2 className=
"text-left text-[#9e3500] mt-[9px] font-[500px] text-
[15px] leading-[28px]"
>{product.status}</h2>
            <h2 className=
"text-left font-[500px] text-[15px] leading-[28px]" >{
product.productName}</h2>

            <h2 className=
"text-left font-[400px] text-grey75 text-[15px] leadin
g-[24px] mt-[2px]"
>{product.colors}</h2>
            <h2 className=
"text-left font-[400px] text-[15px] text-grey75 leadin
g-[24px] mt-[5px]"
>{product.category}</h2>
            <h2 className=
"text-left font-[500px] text-[15px] leading-[28px] mt-
[19px]"
>MRP : ₹ {product.price}</h2>

          </div>
        ))
      }
    </div>
  )
}

```


5) Technical Roadmap:-

↳ 1) Development Stage:-

↳ Product Management :-

This phase pertains to the systematic organization and administration of all product-related information, including product names, pricing, descriptions, images, status, colors and category. It ensures that users have the ability to browse and access detailed product listings in real-time.

↳ Cart and Wish list:-

This allows users to add products to their shopping cart or save items to a wish list. It features real-time stock verification, displays the total invoice amount, and ensures a seamless checkout experience.

↳ Payment:-

This establishes a secure and efficient payment processing system by integrating a reliable payment gateway like Stripe. It will manage transactions, validate payments and swiftly send order confirmation emails, ensuring a seamless user experience.

↳ Authentication:-

Authentication dedicated to the establishment of a secure and user-centric system for account registration and login procedures. It ensures that users can seamlessly create accounts, verify their email addresses and recover passwords, all while safe guarding their data through secure storage measures.

↳ Shipment Tracking:-

This provides real-time updates regarding the status of users' orders. It utilizes a shipment tracking API, such as Ship Engine, to present delivery updates, including notifications.

2) ALPHA Stage:-

↳ Ensures that everything functions flawlessly for users.

3) BETA Stage:-

↳ Launch the platform so that everyone can use it.

4) Sigma Stage:-

↳ Elevate the platform
Continually by embracing and acting
on users' feedback.