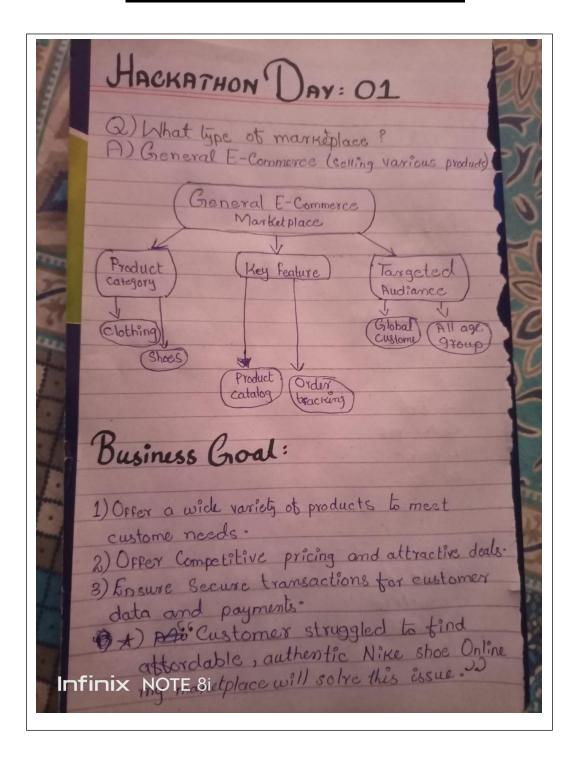
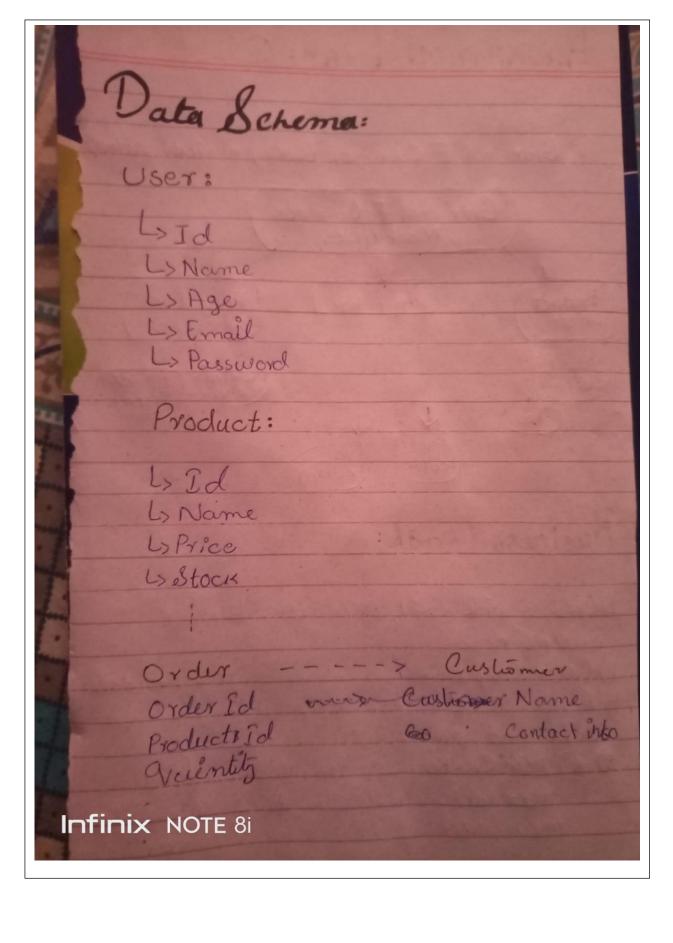
Day-1 of Hackathon:





Day-2 of Hackathon:

Day-3 of Hackathon:

• In scripts directory this is the file of" importSanityData.mjs" for the migration of data in to sanity

```
import { createClient } from '@sanity/client';
import axios from 'axios';
import dotenv from 'dotenv';
import { fileURLToPath } from 'url';
import path from 'path';
// Load environment variables from .env.local
const filename = fileURLToPath(import.meta.url);
const __dirname = path.dirname(__filename);
dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
// Create Sanity client
const client = createClient({
 projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
 dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
 useCdn: false,
 token: process.env.SANITY API TOKEN,
  apiVersion: '2021-08-31'
});
```

```
async function uploadImageToSanity(imageUrl) {
  try {
    console.log(`Uploading image: ${imageUrl}`);
    const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
    const buffer = Buffer.from(response.data);
    const asset = await client.assets.upload('image', buffer, {
        filename: imageUrl.split('/').pop()
    });
    console.log(`Image uploaded successfully: ${asset._id}`);
    return asset._id;
} catch (error) {
    console.error('Failed to upload image:', imageUrl, error);
    return null;
}
```

```
async function uploadImageToSanity(imageUrl) {
 try {
    console.log(`Uploading image: ${imageUrl}`);
    const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
    const buffer = Buffer.from(response.data);
    const asset = await client.assets.upload('image', buffer, {
      filename: imageUrl.split('/').pop()
    });
    console.log(`Image uploaded successfully: ${asset._id}`);
    return asset._id;
  } catch (error) {
    console.error('Failed to upload image:', imageUrl, error);
    return null;
async function importData() {
 try {
    console.log('migrating data please wait...');
    // API endpoint containing car data
    const response = await axios.get('https://template-03-
api.vercel.app/api/products');
    const products = response.data.data;
    console.log("products ==>> ", products);
    for (const product of products) {
      let imageRef = null;
      if (product.image) {
        imageRef = await uploadImageToSanity(product.image);
      const sanityProduct = {
        _type: 'product',
        productName: product.productName,
        category: product.category,
        price: product.price,
        inventory: product.inventory,
        colors: product.colors || [], // Optional, as per your schema
        status: product.status,
        description: product.description,
        image: imageRef ? {
          _type: 'image',
          asset: {
            _type: 'reference',
            _ref: imageRef,
          },
        } : undefined,
      };
```

```
await client.create(sanityProduct);
}

console.log('Data migrated successfully!');
} catch (error) {
  console.error('Error in migrating data ==>> ', error);
}

importData();
```

- Products-Schema of the data
- file Location => sanity/schemaTypes/ products.ts

```
export const productSchema = {
    name: 'product',
    title: 'Product',
    type: 'document',
    fields: [
        name: 'productName',
        title: 'Product Name',
        type: 'string',
      },
        name:"slug",
        type:"slug",
        title: "Slug",
        options:{
          source:"productName"
      },
       name: 'category',
        title: 'Category',
        type: 'string',
      },
        name: 'price',
        title: 'Price',
        type: 'number',
      },
```

```
name: 'inventory',
  title: 'Inventory',
  type: 'number',
},
  name: 'colors',
  title: 'Colors',
  type: 'array',
 of: [{ type: 'string' }],
},
  name: 'status',
 title: 'Status',
  type: 'string',
},
  name: 'image',
  title: 'Image',
  type: 'image', // Using Sanity's image type for image field
  options: {
    hotspot: true,
 },
},
 name: 'description',
 title: 'Description',
 type: 'text',
},
```

- Queries for fetching data
- file Location => sanity/lib/queries.ts

```
import { groq } from "next-sanity";

//query for fetching all products from sanity
export const allProducts = groq`*[_type == "product"]`

//query for only four products fetching from sanity
export const fourProducts = groq`*[_type == "product"][0..3]`

//query for only product's categories fetching from sanity
export const productsCategory = groq`*[_type == "product"].category`
```

- fetching Data
- file Location => app/homepage/bestProducts-section.tsx

```
"use client";
import { FaChevronLeft, FaChevronRight } from "react-icons/fa"; // Importing icons for navigation
import Image from "next/image"; // Importing Next.js optimized Image component
import Link from "next/link";
import { useEffect, useState } from "react";
import { Products } from "../../types/products";
import { client } from "@/sanity/lib/client";
import { fourProducts } from "@/sanity/lib/queries";
import { urlFor } from "@/sanity/lib/image";
export default function BestProducts() {
  const [product, setProduct] = useState<Products[]>([]);
  useEffect(() => {
    async function fetchProducts() {
     const fetchedProduct: Products[] = await client.fetch(fourProducts);
      setProduct(fetchedProduct);
    fetchProducts();
```

Displaying of fetched data

- Fetching all-products and their categories
- file Location => app/ALL-PRODUCTS/ page.tsx

```
"use client"
import Image from 'next/image';
import Link from 'next/link';
import { useEffect, useState } from 'react';
import { Products } from '../../types/products';
import { client } from '@/sanity/lib/client';
import { allProducts, productsCategory } from '@/sanity/lib/queries';
import { urlFor } from '@/sanity/lib/image';
export default function AllProducts() {
 const[product, setProduct] = useState<Products[]>([])
 const[category,setcategory] = useState<string[]>([])
 useEffect(()=>{
  async function fetchingAllProducts(){
   const fetchedProducts:Products[] = await client.fetch(allProducts)
   const fetchedCategories:string[] = await client.fetch(productsCategory)
   setProduct(fetchedProducts)
   setcategory(fetchedCategories)
  fetchingAllProducts()
},[]);
```

- Displaying All-Products
- file Location => app/ALL-PRODUCTS/ page.tsx

```
<h2 className="text-2xl font-bold mb-6">All Products</h2>
        <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-</pre>
cols-4 gap-6">
          {product.map((product) => (
            <div key={product._id} className="space-y-3">
              <Link href={`/products/${product.slug?.current}`}>
              {/* Product Image */}
              <div className="w-full h-48 flex justify-center items-center bg-</pre>
gray-100 rounded-lg">
               {product.image &&(
               <Image
                 src={urlFor(product.image).url()}
                 alt={product.productName}
                 width={200}
                 height={200}
                 className="object-contain"
               />)}
              </div>
              {/* Product Details */}
              <div className="text-start space-y-1 mt-1">
               <h4 className="text-sm md:text-base font-medium leading-tight">
                 {product.productName}
               </h4>
               sm">{product.color}
               sm">{product.category}
               Rs {product.price}
              </div>
              </Link>
              </div>
            </div>
          ))}
        </div>
```

Day-4 of Hackathon:

- Making dynamic UI
- Generating slug
- file Location => app/ALL-PRODUCTS/ page.tsx

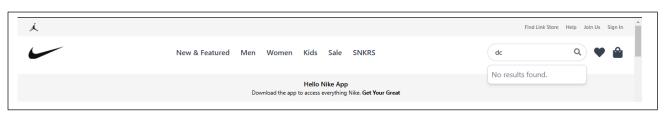
```
<Link href={`/products/${product.slug?.current}`}>
```

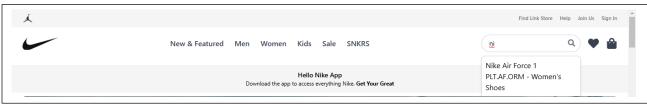
file Location => app/products/[slug]/ page.tsx

```
import { client } from "@/sanity/lib/client";
import { Products } from "../../../types/products";
import { groq } from "next-sanity";
import { urlFor } from "@/sanity/lib/image";
import Link from "next/link";
interface productPageProps{
    params:Promise<{slug:string}>
async function getProduct(slug:string):Promise<Products> {
    return client.fetch(
        groq`*[_type=="product" && slug.current==$slug][0]{
        productName,
        image,
        type,
        description,
        price,
        }`,{slug}
export default async function ProductPage({params}:productPageProps){
    const {slug} = await params
    const product = await getProduct(slug)
```

```
return (
       <div className="flex flex-col lg:flex-row items-center lg:items-start</pre>
justify-center px-4 sm:px-6 lg:px-12 py-8">
         {/* Product Image */}
         <div className="w-full max-w-sm">
           {product.image && (
              src={urlFor(product.image).url()}
              alt={product.productName}
              className="w-full h-auto object-contain"
           )}
         </div>
         {/* Product Details */}
         <div className="mt-6 lg:mt-0 lg:ml-10 text-center lg:text-left">
           <h1 className="text-2xl font-bold mb-4">{product.productName}</h1>
           {product.description}
           Rs {product.price}
           <Link href="/cart">
           <button className="px-6 py-3 bg-black text-white text-sm font-medium"</pre>
rounded-md hover:bg-gray-800 transition-all">
            Add to Cart
           </button></Link>
         </div>
       </div>
     );
```

• Adding search Functionality





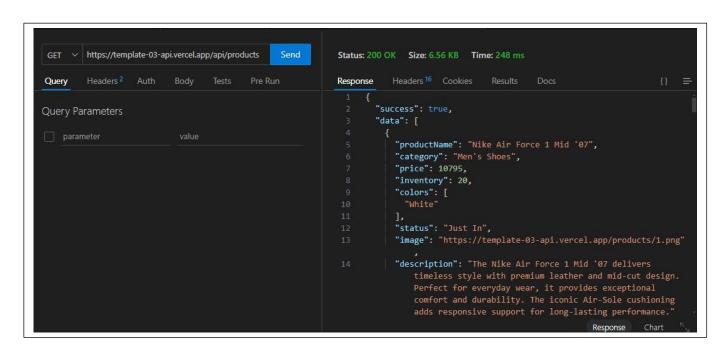
- Add to Cart functionality:
 - I couldn't implement the Add to Card functionality in my project due to time constraints.
 I'll try to add it later as the deadline is near. I'll make sure to implement it later, but for now, I couldn't do it.

Day-5 of Hackathon:

Lighthouse report of my Marketplace



Testing API



 I'm pleased to report that I've conducted a comprehensive review of our marketplace, encompassing error handling and other critical aspects. Our tests indicate that all components are functioning as expected, with data being accurately retrieved and displayed. Furthermore, we've successfully imported data onto the server, ensuring a seamless user experience.