DAY 3 - API INTEGRATION AND DATA MIGRATION

Importing Food and Chef Data from an External API1.

Setting Up Environment Variables

```
NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id
NEXT_PUBLIC_SANITY_DATASET=production
SANITY_API_TOKEN=your_sanity_token
```

2. Fetching Sanity Project ID and API Token

3. Creating the Sanity Schemas

Food Schema (`food.ts`)

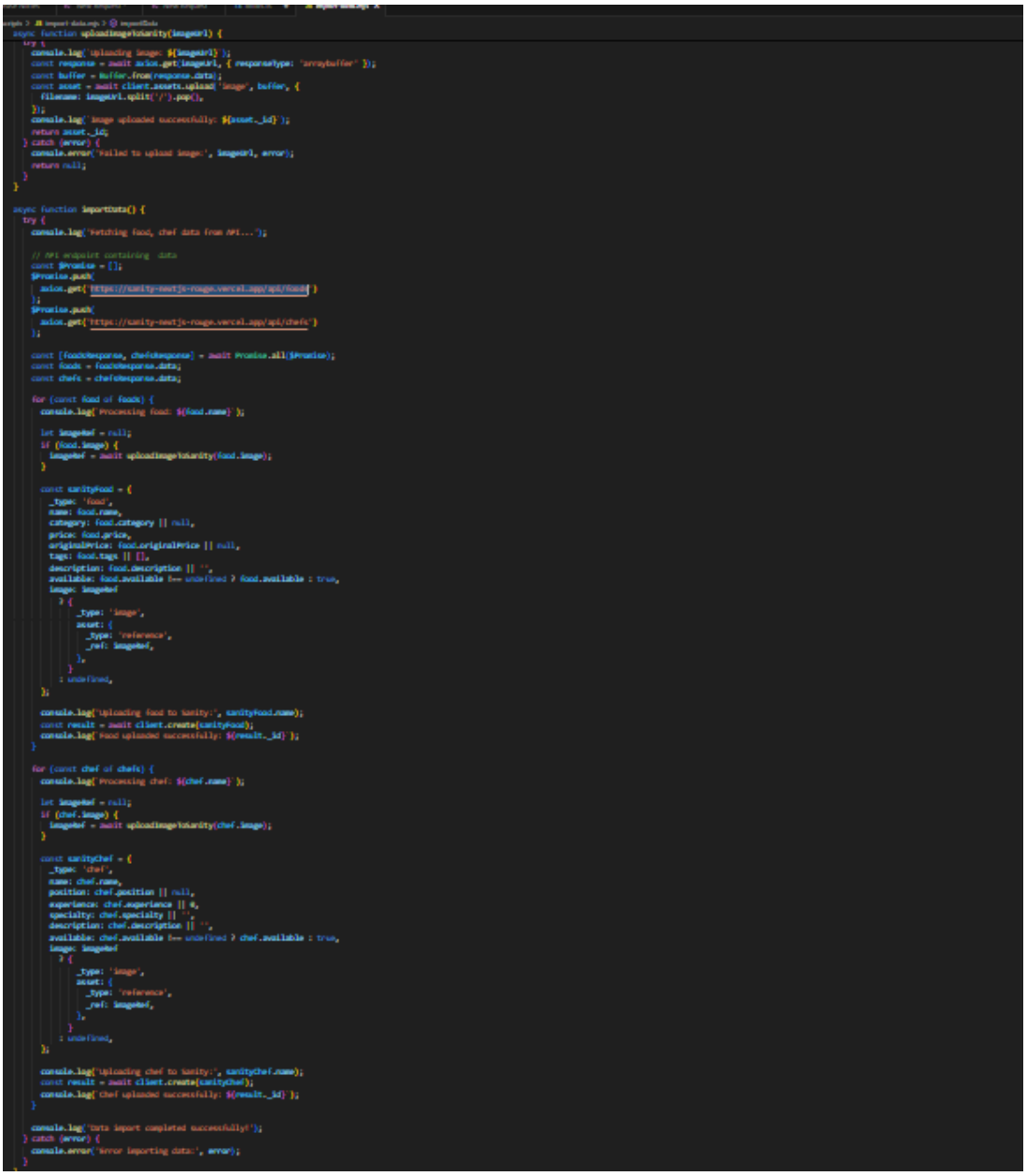
Chef Schema (`chef.ts`)

```
export default {
  name: 'chef',
  type: 'document',
  title: 'Chef',
  fields: [
    { name: 'name', type: 'string', title: 'Chef Name' },
    { name: 'position', type: 'string', title: 'Position' },
    { name: 'experience', type: 'string', title: 'Experience' },
    { name: 'specialty', type: 'string', title: 'Specialty' },
    { name: 'description', type: 'string', title: 'Description' },
    { name: 'available', type: 'boolean', title: 'Available' },
    { name: 'image', type: 'image', title: 'Image', options: { hotspot: true } }
  ],
};
```

Update your `schemaTypes/index.ts` to include these schemas.

4. Writing the Data Import Script

`scripts/importSanityData.mjs`



5. Running the Import Script

```
npm install @sanity/client axios dotenv
```

Run the script:

```
npm run import-data
```

Now ,

Fetching Data from Sanity in Next.js for a Food Menu

Step 1: Setting up the Sanity Client

First, we need to set up the Sanity client to fetch data from our Sanity project. We'll create a new file, `lib/sanity.ts`, to initialize the client.

lib/sanity.ts

```
import { createClient } from '@sanity/client';
```

```
export const client = createClient({
  projectId: process.env.SANITY_PROJECT_ID, // from your sanity.json
  dataset: 'production',
  useCdn: true,
  token: process.env.SANITY_API_TOKEN, // Add your token here if
needed
  apiVersion: '2025-01-17', // Always use the latest version
});
```

Step 2: Creating the FetchFood Component

Src/components/shopProduct.tsx

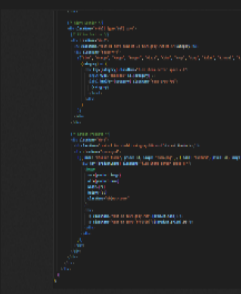
components > ShopProduct.tsx > ...

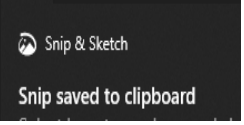
```tsx
"use client";

import React, { useState, useEffect } from "react";
import Link from "next/link";
import Image from "next/image";
import { client } from "@/sanity/lib/client"; // Sanity client import

// Define types for the data being fetched
interface Food {
  slug: string;
  name: string;
  category: string;
  description: string;
  price: number;
  originalPrice: number;
  tags: string | string[];
  available: boolean;
  imageUrl: string;
  _createdAt: string;
  _updatedAt: string;
}

const ShopProduct = () => {
  const [foods, setFoods] = useState<Food[]>([]);
  const [filteredFoods, setFilteredFoods] = useState<Food[]>([]);
  const [searchQuery, setSearchQuery] = useState<string>("");
  const [loading, setLoading] = useState<boolean>(true);
  const [error, setError] = useState<string | null>(null);

  useEffect(() => {
    const fetchData = async () => {
      try {
        const query = `*[_type == "food"]{
          name,
          category,
          description,
          price,
          originalPrice,
          available,
          tags,
          "slug": slug.current,
          "imageUrl": image.asset->url
        }`;
        const products = await client.fetch(query);
        setFoods(products);
        setFilteredFoods(products);
      } catch (err: unknown) {
        console.error("Error fetching data:", err);
        setError("An unexpected error occurred");
      } finally {
        setLoading(false);
      }
    };

    fetchData();
  }, []);
```

```
const ShopProduct = () => {

  const handleSearch = (event: React.ChangeEvent<HTMLInputElement>) => {
    const query = event.target.value.toLowerCase();
    setSearchQuery(query);

    const filtered = foods.filter((food) =>
      food.name.toLowerCase().includes(query) ||
      (Array.isArray(food.tags)
        ? food.tags.some((tag) => tag.toLowerCase().includes(query))
        : food.tags?.toLowerCase().includes(query))
    );

    setFilteredFoods(filtered);
  };

  if (loading) {
    return (
      <div className="flex items-center justify-center min-h-screen bg-gray-50">
        <p className="text-xl font-medium text-gray-700">Loading...</p>
      </div>
    );
  }

  if (error) {
    return (
      <div className="flex items-center justify-center min-h-screen bg-gray-50">
        <p className="text-xl font-medium text-red-600">Error: {error}</p>
      </div>
    );
  }

  return (
    <div className="bg-gray-50 py-10">
      <div className="container mx-auto flex flex-wrap">
        {/* Left Section */}
        <div className="w-full lg:w-[70%] px-4 mb-10">
          <h1 className="text-3xl font-bold text-center mt-20 text-gray-800 mb-8">
            Food List
          </h1>

          <div className="mb-6">
            <input
              type="text"
              placeholder="Search by name or tags..."
              value={searchQuery}
              onChange={handleSearch}
              className="w-full p-3 border border-gray-300 rounded-lg"
            />
          </div>

          {filteredFoods.length === 0 ? (
            <p className="text-center text-lg font-medium text-gray-500">
              No food items found.
            </p>
          ) : (
            <ul className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-6">
              {filteredFoods.map((food) => (
                <li
```

```
            {filteredFoods.map((food) => (
              <li
                key={food.slug}
                className="bg-white border border-gray-200 rounded-lg shadow-md hover:shadow-lg transition-shadow overflow-hidden"
              >
                <Link href={`/ourshops/${food.slug}`}>
                  <div className="relative h-[300px] w-full bg-gray-100 overflow-hidden group">
                    <Image
                      src={food.imageUrl}
                      alt={food.name}
                      layout="fill"
                      objectFit="cover"
                      className="transform transition-transform duration-300 group-hover:scale-110"
                    />
                    <div className="absolute inset-0 bg-black bg-opacity-0 group-hover:bg-opacity-20 transition-all duration-300"></div>
                  </div>
                  <div className="p-6">
                    <h2 className="text-xl font-semibold text-gray-800 mb-2">
                      {food.name}
                    </h2>
                    <p className="text-sm text-gray-600 mb-4">
                      {food.description}
                    </p>
                    <div className="flex items-center justify-between mb-4">
                      <p className="text-lg font-medium text-green-600">
                        ${food.price.toFixed(2)}
                      </p>
                      <p className="text-sm line-through text-gray-500">
                        ${food.originalPrice.toFixed(2)}
                      </p>
                    </div>
                    <div className="text-sm text-gray-500">
                      <p>
                        Category:{" "}
                        <span className="font-medium">{food.category}</span>
                      </p>
                    </div>
                  </div>
                </Link>
              </li>
            ))}
          </ul>
        )}
      </div>
```

```
      {/* Right Section */}
      <div className="w-full lg:w-[30%] px-4">
        {/* Filter Section */}
        <div className="mb-6">
          <h3 className="text-xl font-bold mt-32 text-gray-700 mb-4">Category</h3>
          <div className="space-y-4">
            {["Lime", "Orange", "Mango", "Burger", "Pizza", "Cake", "Wrap", "Soup", "Salat", "Biryani", "Sandwich"].map(
              (category) => (
                <div key={category} className="flex items-center space-x-2">
                  <input type="checkbox" id={category} />
                  <label htmlFor={category} className="text-gray-700">
                    {category}
                  </label>
                </div>
              )
            )}
          </div>
        </div>

        {/* Latest Products */}
        <div className="mb-6">
          <h3 className="text-xl font-bold text-gray-700 mb-4">Latest Products</h3>
          <div className="space-y-4">
            {[{ name: "Chicken Tikka", price: 34, image: "/new.png" }, { name: "custurd", price: 40, image: "/h17.png" }, { name: "Muffin", price: 40, image: "/post2.png" }, { name: "Salat", price: 40, image: "/s3.png" }].map((product) => (
              <div key={product.name} className="flex items-center space-x-4">
                <Image
                  src={product.image}
                  alt={product.name}
                  width={71}
                  height={65}
                  className="object-cover"
                />
                <div>
                  <p className="text-sm text-gray-700">{product.name}</p>
                  <p className="text-sm text-[#FF9F0D]">${product.price}.00</p>
                </div>
              </div>
            ))}
          </div>
        </div>
      </div>
    </div>
  </div>
</div>

ort default ShopProduct;
```





Step 4: Creating the Food Component

Src/app/ourshops.tsx

```tsx
> app > ourshops > page.tsx > default
import React from 'react'
// import HeroSection from '../Components/HeroSection'
import ShopProduct from '../../components/ShopProduct'
import CartProvider from '@/components/Cart/CartProvider'

const Page = () => {
  return (
    <div>
        {/* <HeroSection title='Our Shop' homeLink='/' currentPage='Shop ' backgroundImage='/starbg.png'  /> */}
<CartProvider>
        <ShopProduct/>
        </CartProvider>
    </div>
  )
}

export default Page
```

Step 6: Running the Application

Data display successfully