API Integration Process

<u>Day 3 Checklist:</u>

I. API Understanding: ✓

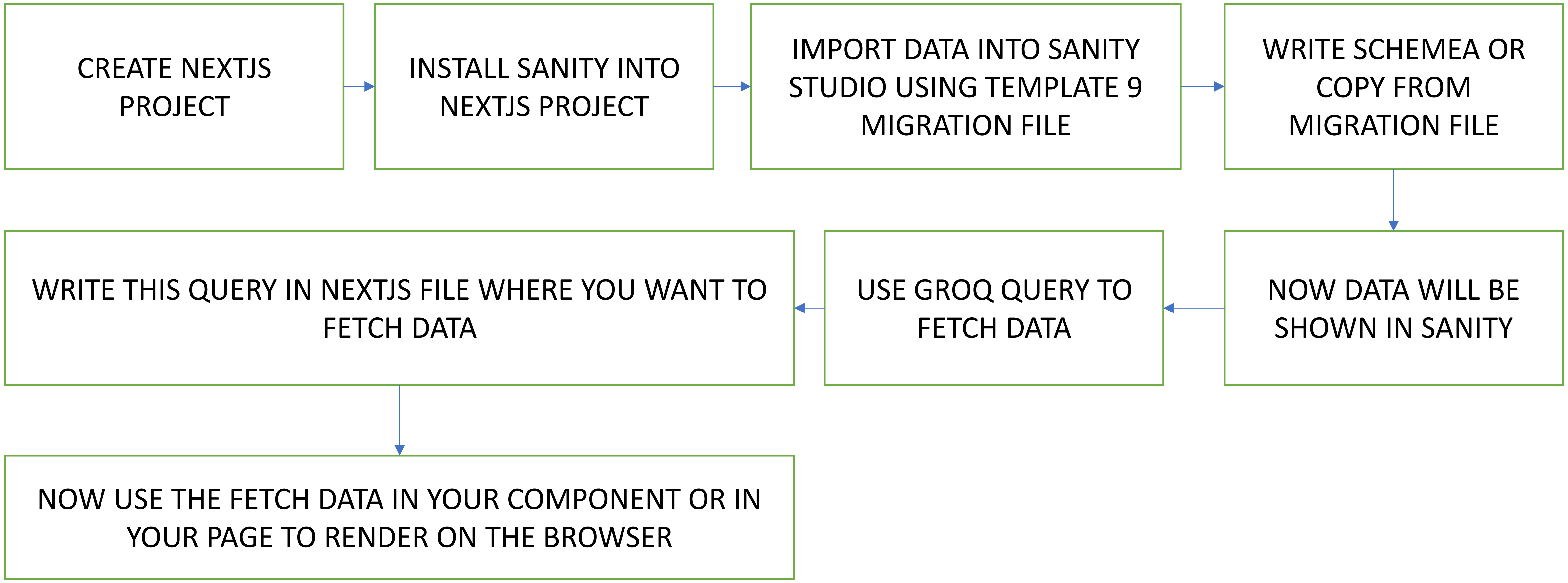
II. Schema Validation: ✓

III. Data Migration: ✓

IV. API Integration in Next.js: ✓

V. Submission Preparation: ✓

SANITY STUDIO API WORKFLOW



CREATE NEXTJS PROJECT

INSTALL SANITY INTO NEXTJS PROJECT

IMPORT DATA INTO SANITY STUDIO USING TEMPLATE 9 MIGRATION FILE

WRITE SCHEMEA OR COPY FROM MIGRATION FILE

NOW DATA WILL BE SHOWN IN SANITY

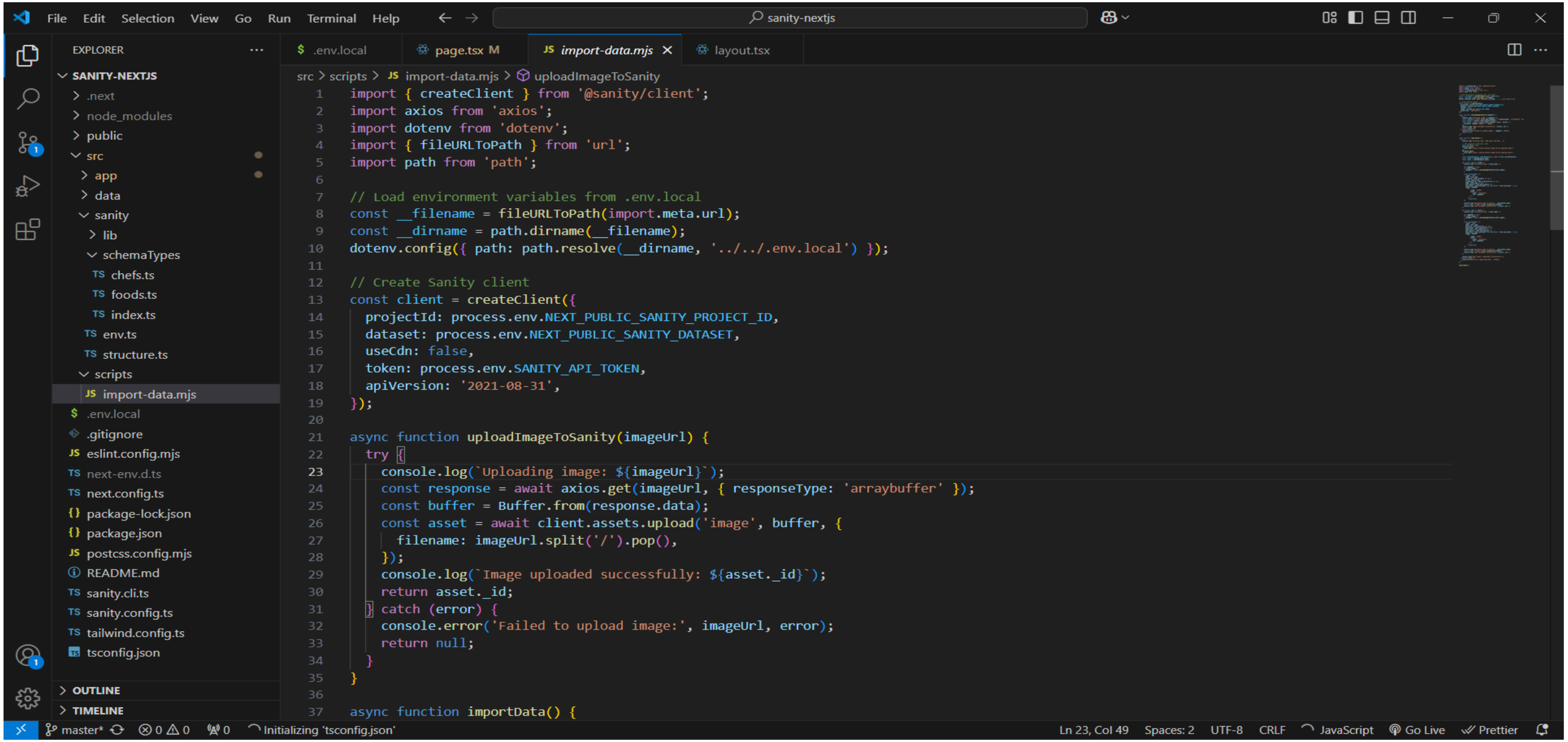
USE GROQ QUERY TO FETCH DATA

WRITE THIS QUERY IN NEXTJS FILE WHERE YOU WANT TO FETCH DATA

NOW USE THE FETCH DATA IN YOUR COMPONENT OR IN YOUR PAGE TO RENDER ON THE BROWSER

Sanity Migration file

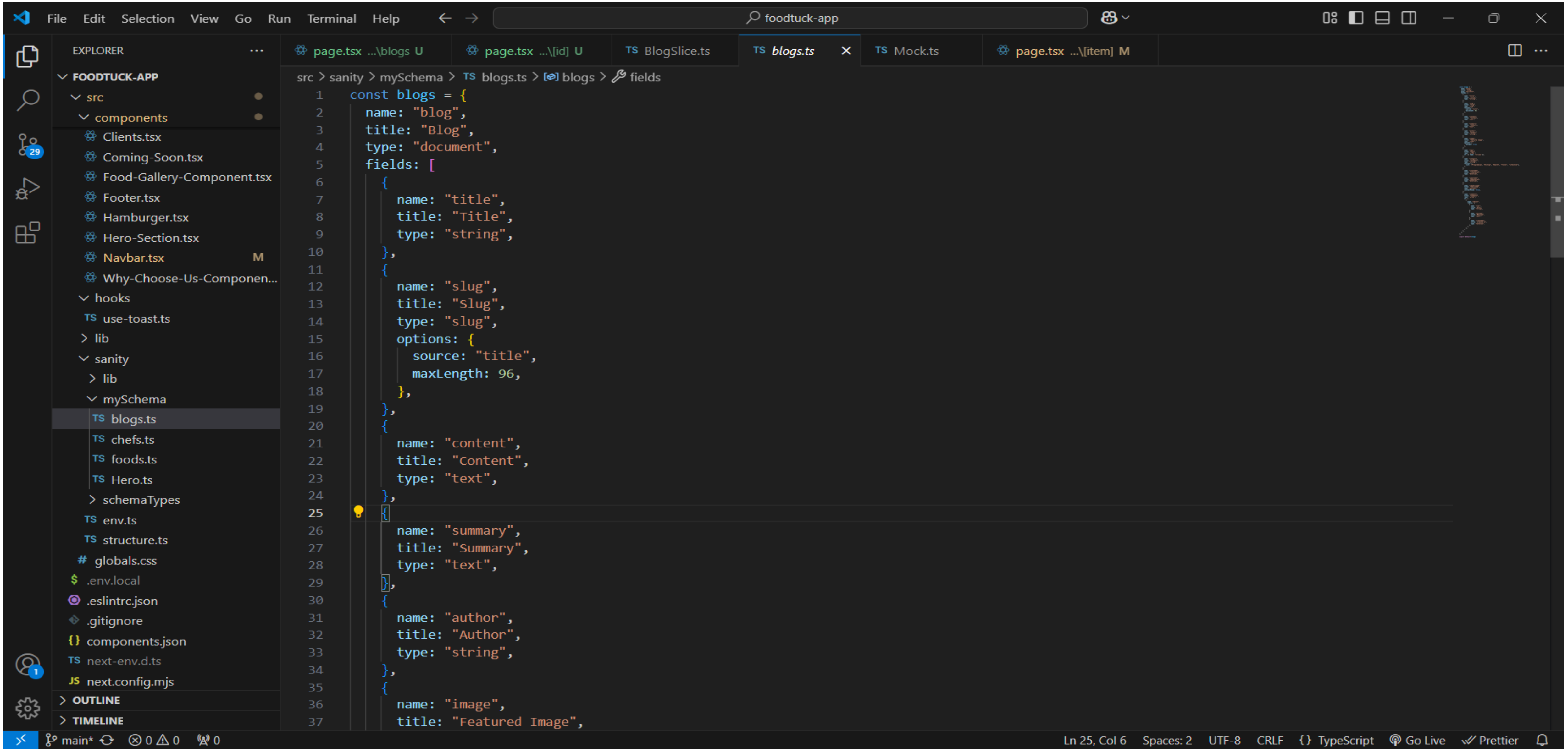
I import data into my sanity studio using file provided in template 9 for data migration



```javascript
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 importData() {
```

My Blog Schema for Sanity

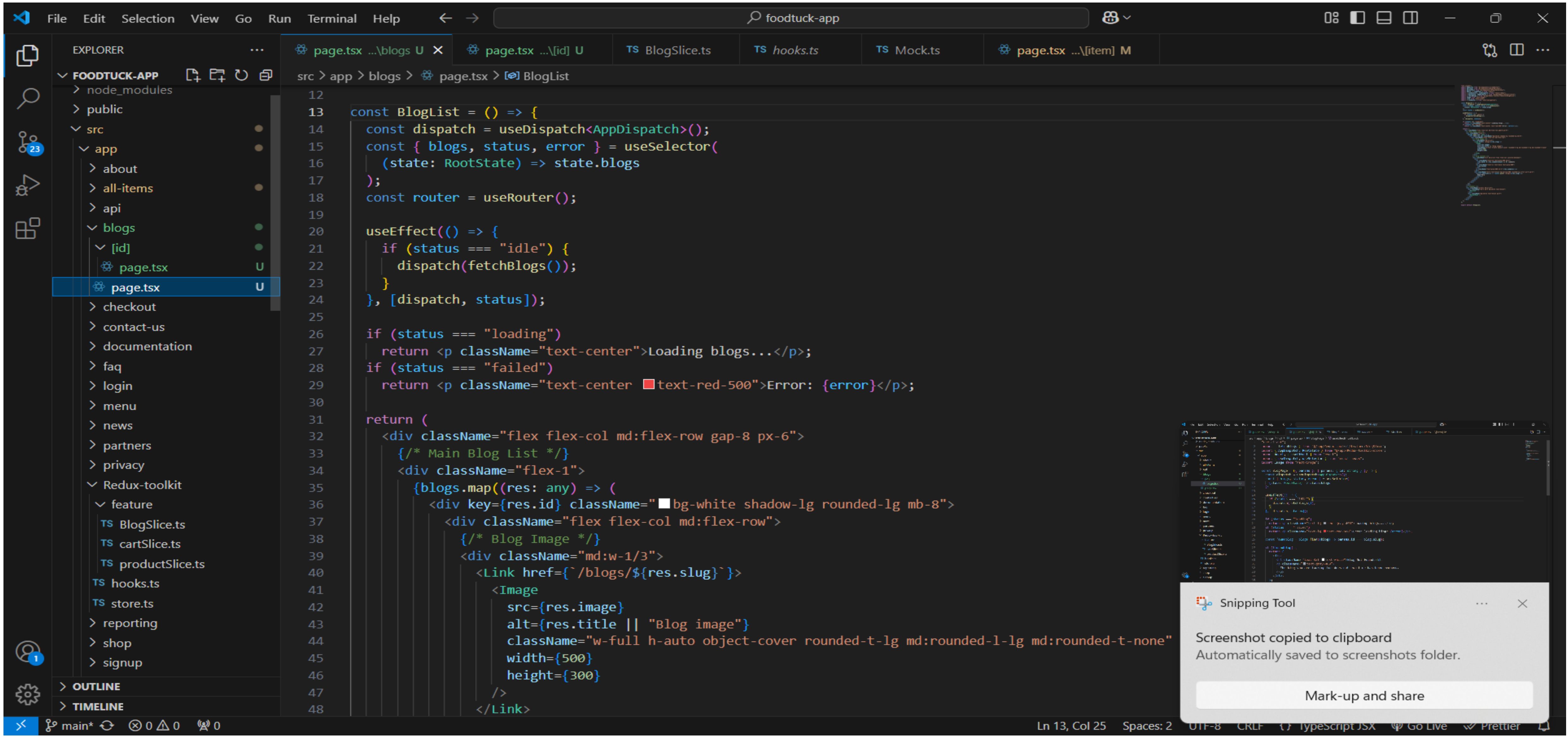
Here is my blog schema and I am using slug for dynamic routing and seo



```
const blogs = {
  name: "blog",
  title: "Blog",
  type: "document",
  fields: [
    {
      name: "title",
      title: "Title",
      type: "string",
    },
    {
      name: "slug",
      title: "Slug",
      type: "slug",
      options: {
        source: "title",
        maxLength: 96,
      },
    },
    {
      name: "content",
      title: "Content",
      type: "text",
    },
    {
      name: "summary",
      title: "Summary",
      type: "text",
    },
    {
      name: "author",
      title: "Author",
      type: "string",
    },
    {
      name: "image",
      title: "Featured Image",
```

My Blogs Page

Here I am fetching data from sanity into my redux and applying map method to display all blogs



```tsx

const BlogList = () => {
  const dispatch = useDispatch<AppDispatch>();
  const { blogs, status, error } = useSelector(
    (state: RootState) => state.blogs
  );
  const router = useRouter();

  useEffect(() => {
    if (status === "idle") {
      dispatch(fetchBlogs());
    }
  }, [dispatch, status]);

  if (status === "loading")
    return <p className="text-center">Loading blogs...</p>;
  if (status === "failed")
    return <p className="text-center text-red-500">Error: {error}</p>;

  return (
    <div className="flex flex-col md:flex-row gap-8 px-6">
      {/* Main Blog List */}
      <div className="flex-1">
        {blogs.map((res: any) => (
          <div key={res.id} className="bg-white shadow-lg rounded-lg mb-8">
            <div className="flex flex-col md:flex-row">
              {/* Blog Image */}
              <div className="md:w-1/3">
                <Link href={`/blogs/${res.slug}`}>
                  <Image
                    src={res.image}
                    alt={res.title || "Blog image"}
                    className="w-full h-auto object-cover rounded-t-lg md:rounded-l-lg md:rounded-t-none"
                    width={500}
                    height={300}
                  />
                </Link>
```

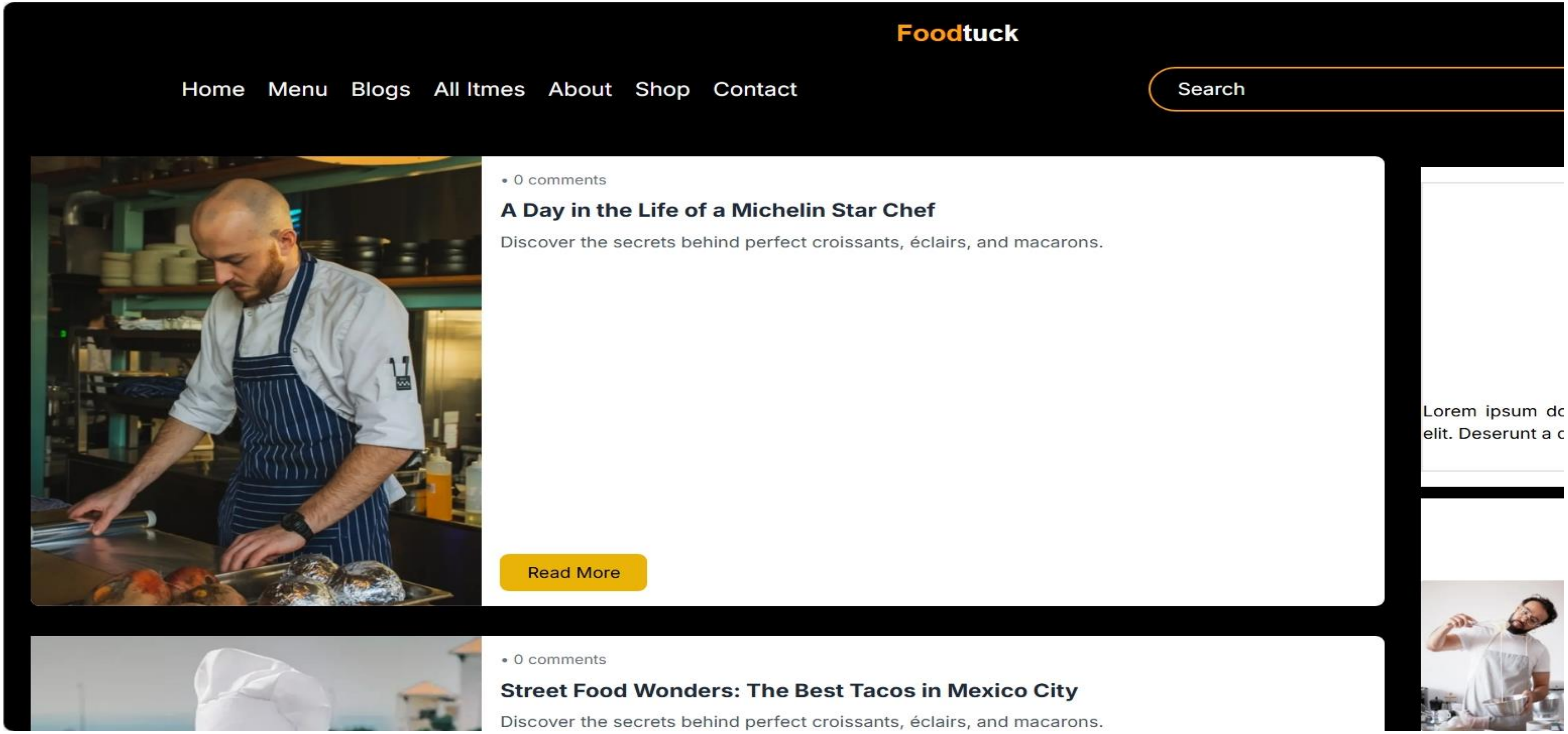
Snipping Tool

Screenshot copied to clipboard
Automatically saved to screenshots folder.

Mark-up and share

My Blogs Page

Here I am showing all blogs in a page



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Discover the secrets behind perfect croissants, éclairs, and macarons.

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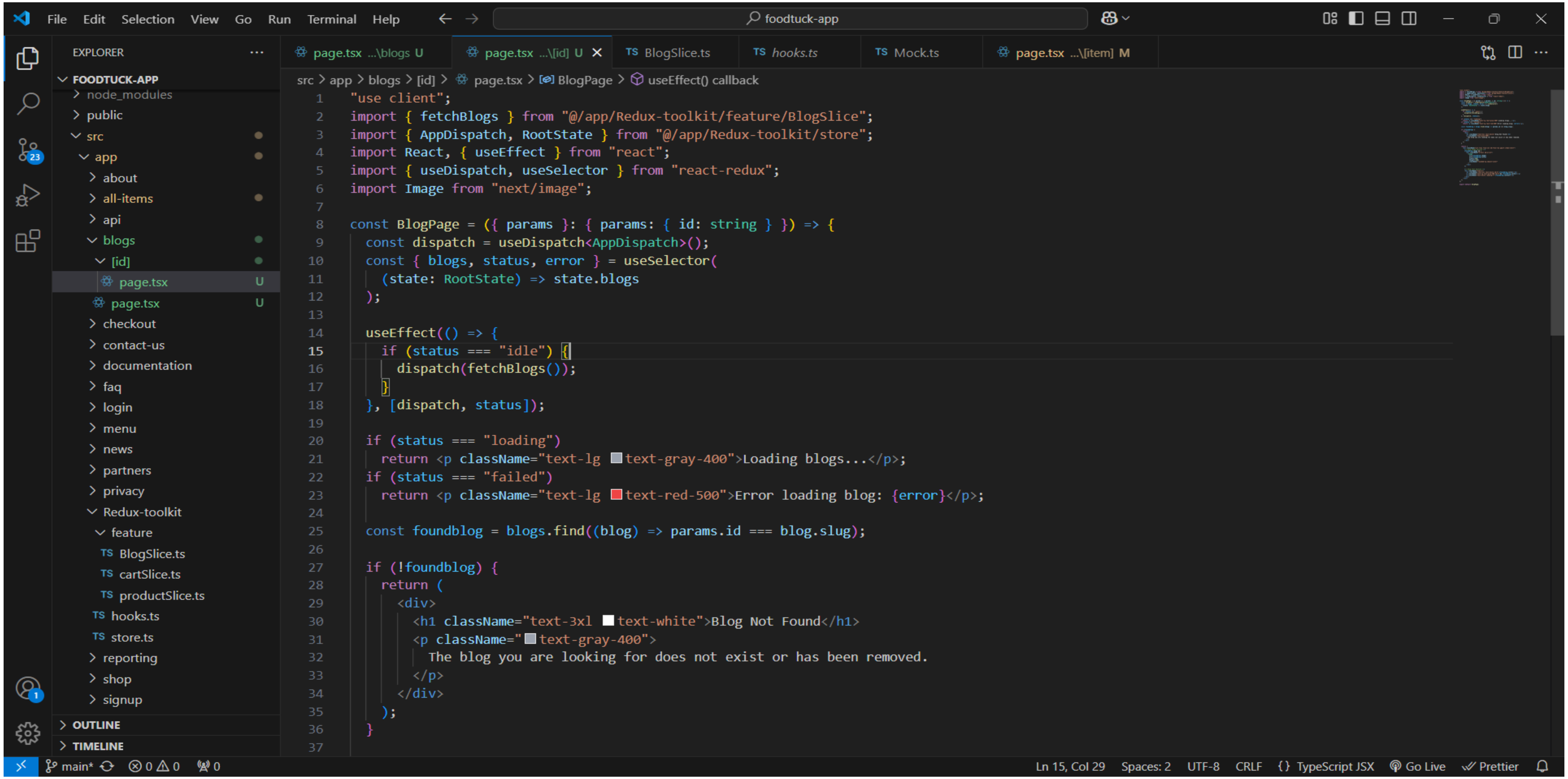
My Single Blog Page

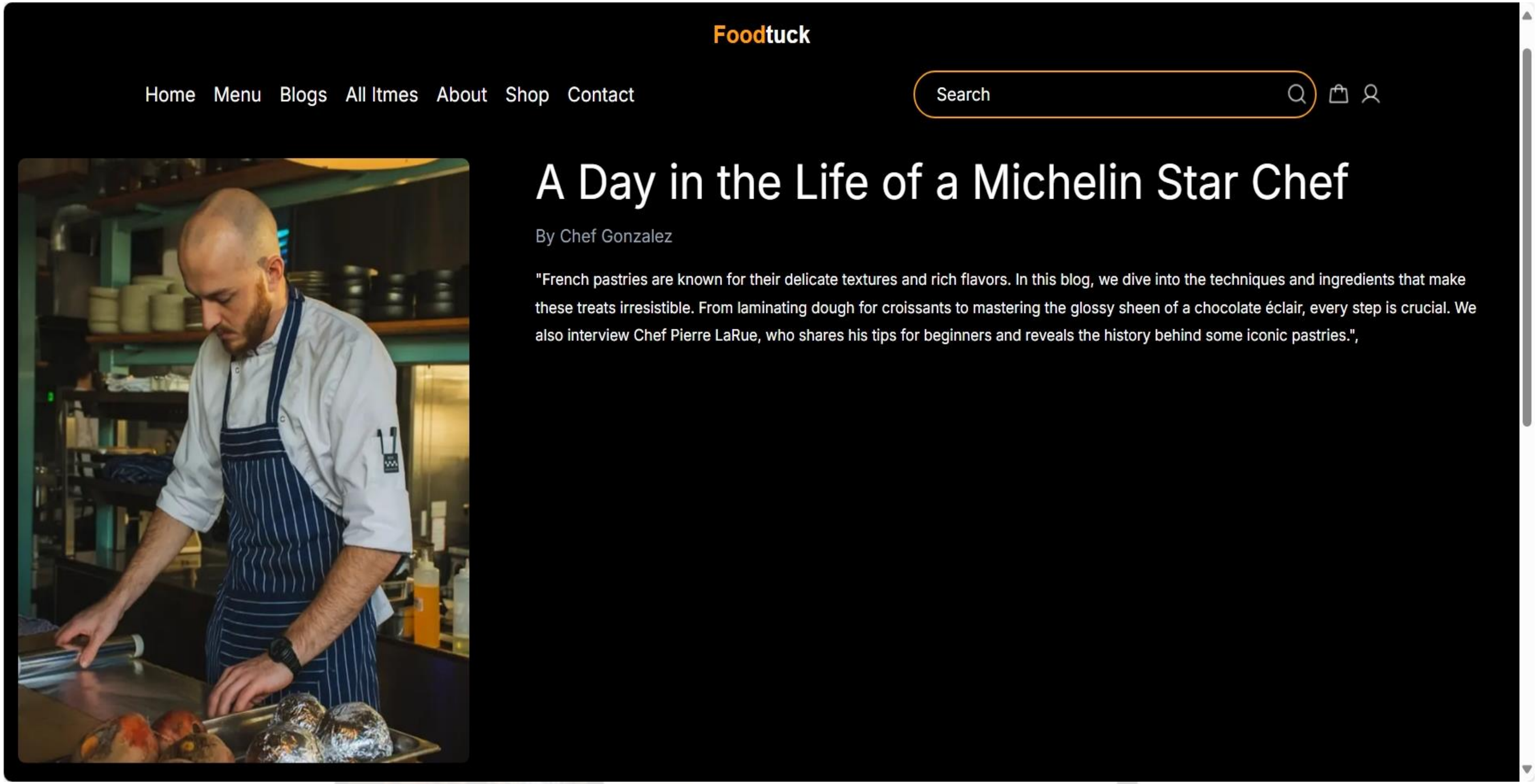
Here I am fetching data from sanity into my redux and applying find method to get only one result



```tsx
"use client";
import { fetchBlogs } from "@/app/Redux-toolkit/feature/BlogSlice";
import { AppDispatch, RootState } from "@/app/Redux-toolkit/store";
import React, { useEffect } from "react";
import { useDispatch, useSelector } from "react-redux";
import Image from "next/image";

const BlogPage = ({ params }: { params: { id: string } }) => {
  const dispatch = useDispatch<AppDispatch>();
  const { blogs, status, error } = useSelector(
    (state: RootState) => state.blogs
  );

  useEffect(() => {
    if (status === "idle") {
      dispatch(fetchBlogs());
    }
  }, [dispatch, status]);

  if (status === "loading")
    return <p className="text-lg text-gray-400">Loading blogs...</p>;
  if (status === "failed")
    return <p className="text-lg text-red-500">Error loading blog: {error}</p>;

  const foundblog = blogs.find((blog) => params.id === blog.slug);

  if (!foundblog) {
    return (
      <div>
        <h1 className="text-3xl text-white">Blog Not Found</h1>
        <p className="text-gray-400">
          The blog you are looking for does not exist or has been removed.
        </p>
      </div>
    );
  }

```

My Single Blog Page

Here I am showing a single blog in a page after clicking on it



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A Day in the Life of a Michelin Star Chef

By Chef Gonzalez

"French pastries are known for their delicate textures and rich flavors. In this blog, we dive into the techniques and ingredients that make these treats irresistible. From laminating dough for croissants to mastering the glossy sheen of a chocolate éclair, every step is crucial. We also interview Chef Pierre LaRue, who shares his tips for beginners and reveals the history behind some iconic pastries.",