



# HACKATHON (DAY 3)

API Integration Report

# API CREATION :

## API CREATION PROCESS:

- Created my own API using route handlers in Nextjs.
  - Uses GET function for fetching data.
  - Created Endpoints for all data.
  - /foods , /chefs , /blogs.
  - Tested API Endpoint using Postman to validate API response.
  - Created API:
    - <https://custom-api-omega.vercel.app/api/foods>
    - <https://custom-api-omega.vercel.app/api/chefs>
    - <https://custom-api-omega.vercel.app/api/blogs>

## API INTEGRATION PROCESS:

- Integrated my custom API for fetching product data into the Next.js frontend.
  - Created a Migration script to migrate data into Sanity CMS (Content Management system).
  - Migrate a fetched data into Sanity (CMS) for backend.
  - Store all Data into Sanity.

ome +

m-api-omega.vercel.app/api/chefs

https://custom-api-omega.vercel.app/api/chefs

ization Headers (7) Body Scripts Tests Settings

|              | Value        | Description          |
|--------------|--------------|----------------------|
| Headers (15) | Test Results | 200 OK • 328 ms • 3. |

> Preview Visualize

```
"id": 0,
"name": "Tahmina Rumi",
"position": "Head Chef",
"yearsOfExperience": 12,
"specialty": "Italian Cuisine",
"image": "/images/c1.png",
"description": "Expert in crafting authentic Italian dishes and pastries.",
"currentlyActive": true

"id": 1,
"name": "Jorina Begum",
"position": "Sous Chef",
"yearsOfExperience": 8,
```

# TEST API

Test API to see the  
response in Postman.  
Endpoint(/chefs).

https://custom-api-ome

https://custom-api-omega.vercel.app/api/foods

GET https://custom-api-omega.vercel.app/api/foods

Params Authorization Headers (7) Body Scripts Tests Settings

Query Params

| Key | Value | Description |
|-----|-------|-------------|
|-----|-------|-------------|

200 OK • 531 ms • 2

JSON Preview Visualize

```
3  "id": 1111,
4  "name": "Fresh Lime",
5  "category": "Drink",
6  "price": 38,
7  "originalPrice": 45,
8  "description": "Refreshing fresh lime drink made with natural ingredients.",
9  "tags": [
10   "Healthy",
11   "Popular"
12 ],
13  "image": "/images/drink.png",
14  "available": true,
15  "rating": 4.5,
16  "quantity": 35
17 },
18 {
19   "id": 2222,
20   "name": "Chocolate Muffin",
```

# TEST API

Test API to see the  
response in Postman.  
Endpoint(/foods).

stom-api-ome +

//custom-api-omega.vercel.app/api/blogs

https://custom-api-omega.vercel.app/api/blogs

Authorization Headers (7) Body Scripts Tests Settings

ms

| Key | Value | Description |
|-----|-------|-------------|
|-----|-------|-------------|

cookies Headers (15) Test Results 200 OK • 806

Preview Visualize

```
{
  "id": 1122,
  "title": "10 Reasons To Do A Digital Detox Challenge",
  "description": "At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat",
  "image": "/images/b1.png",
  "tags": [
    "Healthy",
    "Popular"
  ]
},
```

# TEST API

Test API to see the response in Postman.  
Endpoint(/blogs).

# **SANITY CMS SETUP FOR BACKEND.....**

Sanity's CMS capabilities to fetch data from an external API & store it in Sanity's database, and make it available for querying and ready to use. Sign up in sanity then create Token which is necessary for API integration After create Token used to built GROQ query for fetching Data. Ensure the API data matches the expected schema in Sanity

```

5 import { fileURLToPath } from 'url';
6 import path from 'path';
7
8 // Load environment variables from .env.local
9 const __filename = fileURLToPath(import.meta.url);
10 const __dirname = path.dirname(__filename);
11 dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
12
13 // Create Sanity client
14 const client = createClient({
15   projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
16   dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
17   useCdn: false,
18   token: process.env.SANITY_API_TOKEN,
19   apiVersion: '2021-08-31',
20 });
21
22 async function uploadImageToSanity(imageUrl) {
23   try {
24     console.log(`Uploading image: ${imageUrl}`);
25     const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
26     const buffer = Buffer.from(response.data);
27     const asset = await client.assets.upload('image', buffer, {
28       filename: imageUrl.split('/').pop(),
29     });

```

# MIGRATION SCRIPT.

Integrated API through the migration script into the Next.js frontend and Sanity CMS.

```
37
38 async function importData() {
39   try {
40     console.log('Fetching food, chef data from API...');
41
42     // API endpoint containing data
43     const $Promise = [];
44     $Promise.push(
45       axios.get('https://custom-api-omega.vercel.app/api/foods')
46     );
47     $Promise.push(
48       axios.get('https://custom-api-omega.vercel.app/api/chefs')
49     );
50
51
52     $Promise.push(
53       axios.get('https://custom-api-omega.vercel.app/api/blogs')
54     );
55
56
57     const [foodsResponse, chefsResponse, blogsResponse] = await Promise.all($Promise);
58     const foods = foodsResponse.data;
59     const chefs = chefsResponse.data;
60     const blogs = blogsResponse.data;
61
62     for (const food of foods) {
```

# MIGRATION SCRIPT.

Integrated API through the migration script into the Next.js frontend and Sanity CMS.



```

136 const sanityBlog = {
137   _type: 'blog',
138   name: blog.name,
139   tags: blog.tags || [],
140   description: blog.description || '',
141   image: imageRef
142   ? {
143     _type: 'image',
144     asset: {
145       _type: 'reference',
146       _ref: imageRef,
147     },
148   }
149   : undefined,
150 };
151
152 console.log('Uploading food to Sanity:', sanityBlog.name);
153 const result = await client.create(sanityBlog);
154 console.log(`Blog uploaded successfully: ${result._id}`);
155 }
156
157
158 console.log('Data import completed successfully!');
159

```

# MIGRATION SCRIPT.

Integrated API through the migration script into the Next.js frontend and Sanity CMS.

Chef

+ ...


Bisnu Devgon


>


>


>


>


 Bisnu Devgon


 William Rumi


 Motin Molladsf


 Tahmina Rumi


 Munna Kathy


 M. Mohammad

 Jorina Begum

 Tahmina Rumi

 Kets william roy

 Mahmud kholil

 Ataur Rahman

Chef

Bisnu Devgon

Chef Name

Bisnu Devgon

Position

Role or title of the chef (e.g., Head Chef, Sous Chef)

Executive Chef

Years of Experience

Number of years the chef has worked in the culinary field

10

Specialty

Specialization of the chef (e.g., Italian Cuisine, Pastry)

# IMPORT DATA INTO SANITY


Fetch data from custom API into  
Sanity CMS.  
(/chefs)


Food


+ ...


Fresh Lime


Search list


 Fresh Lime


 Chocolate Muffin


 Burger


 Country Burger


 Pizza


 Chicken Chup

 Chicken Chup

 Pizza

 Country Burger

 Burger

 Chocolate Muffin

Food

Fresh Lime

Food Name

Fresh Lime

Category

Category of the food item (e.g., Burger, Sandwich, Drink, etc.)

Drink

Current Price

38

Original Price

Price before discount (if any)

15

# IMPORT DATA INTO SANITY

Fetch data from custom API into  
Sanity CMS.  
(/foods)



My Favorite Easy Black Pizza Toast Recipe



The Ultimate Hangover Burger: Egg in a ...



Traditional Soft Pretzels with Sweet Beer ...



10 Reasons To Do A Digital Detox Challen...

Blog

## My Favorite Easy Black Pizza Toast Recipe

Title

My Favorite Easy Black Pizza Toast Recipe

Description

At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut dolore magna aliquyam erat At vero eos et accusam et justo duo dolores Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy tempor invidunt ut labore et dolore magna aliquyam erat At vero eos et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat

# IMPORT DATA INTO SANITY

Fetch data from custom API into  
Sanity CMS.  
(/blogs)



**Munna Kathy**

inary Instructor

xperience:

Asian Fusion

in Asian fusion dishes  
flavors with modern  
iques.

Active: No



**Chef Name: Bisnu Devgon**

Position: Executive Chef

Years of Experience:

Specialty: Global Cuisine

Description: Expert in international cuisines and  
menu planning.

Currently Active: No



**Chef Name: William Rumi**

Position: Chef de Cuisine

Years of Experience:

Specialty: Seafood Specialties

Description: Master of crafting exquisite  
seafood dishes with unique flavors.

Currently Active: No



**Chef Name: T**

Position:

Years of E

Specialty: It

Description: Expert in  
dishes and

Currently

**DISPLAY**  
**ALL DATA**  
**INTO**  
**FRONTEND.**

Display data into Frontend  
(/chefs).



Choose & Pick!

## From Our Menu

Appetizer

Main Course

Sandwich

Dessert

Drink



Country Burger

\$45 \$50

art

[view details](#)



Burger

\$21 \$45

Add to Cart

[view details](#)



Country Burger

\$45 \$50

Add to Cart

[view details](#)



Burger

\$21 \$45

Add to Cart

[view details](#)

**DISPLAY**  
**ALL DATA**  
**INTO**  
**FRONTEND.**

Display data into Frontend  
(/foods).



Healthy Popular Recipe

## My Favorite Easy Black Pizza Toast Recipe

At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est...

Read More



Search blogs...

### Recent Posts



My Favorite Easy Black Pizza Toast Recipe



The Ultimate Hangover Burger: Egg in a Hole B



10 Reasons To Do A Digital Detox Challenge

### Filter by Categories

Healthy

Popular

Recipe

Restaurant

Dinner

Burger

Pizza

Yummy

Lunch

# DISPLAY ALL DATA INTO FRONTEND.

Display data into Frontend  
(/blogs).

# CONCLUSION:

- . Create own API with endpoints like /chefs ,/foods,/blogs.
- .Test API in Postman to validate response in all endpoints.
- . Successfully integrated API data through the migration script into the Next.js frontend and Sanity CMS.
- .Sanity CMS for Backend (store all data in sanity).
- .Hide all sensitive information in .env file for the security.
- .All data successfully show in Frontend for user's.







**“THANKYOU”**

