Day 3 - API Integration Report – Food Tuck

Introduction: What is API Integration?

the process of connecting two or more applications or systems by using APIs (Application Programming Interfaces) to exchange data and perform actions.

End Points:

GET/foods

- Contain list of foods
- Purpose: to display list of food on UI
- Example:


```
{
    "name": "Fresh Lime",
    "category": "Drink",
    "price": 38.0,
    "originalPrice": 45.0,
    "tags": ["Healthy", "Popular"],
    "image": "https://sanity-nextjs-rouge.vercel.app/food/food-1.png",
    "description": "Refreshing fresh lime drink made with natural ingredients.",
    "available": true
  },
```


GET/chefs

- Contain list of Chefs
- Purpose: display list of Chefs on UI
- Example:


```
 {
   "name": "William Rumi",
    "position": "Chef de Cuisine",
    "experience": 18,
    "specialty": "Seafood Specialties",
    "image": "https://sanity-nextjs-rouge.vercel.app/chef/chef-6.png",
    "description": "Master of crafting exquisite seafood dishes with unique
flavors.",
    "available": true
  }
```

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Steps of API Integration:

1. Setting up utility functions:
   - To fetch data from these end points we created such a reusable Functions which will handle API calls
   - Example

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


export const Foods = defineQuery(
    `*[_type == "food"]{
  _id,
  name,
  description,
  price,
  category,
    originalPrice,
    tags,
    "imageUrl":image.asset -> url,
   available
}`)
```

```
export const ChefsData = defineQuery(
    `*[_type =="chef"]{
  _id,
  name,
  description,
  position,
  available ,
  experience,
  specialty,
  "imageUrl":image.asset -> url,


}`)
```

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2. Rendering Data in Components:
    - Now after setting up functions we will fetch it in our main component code to display it on screen
    - Just Like

```
import { sanityFetch } from "@/sanity/lib/live";
import { Foods15 } from '@/sanity/lib/queries';
type Food = {
  _id: string;
  name: string;
  category: string;
  price: number;
  originalPrice: number;
  tags: string[];
  imageUrl: string;
  description: string;
  available: true
}

async function shop() {
  const response = (await sanityFetch({ query:Foods15})).data;
  const products: Food[] = response;
  return (
<div className='grid grid-cols-3 gap-[32px]'>
            {products.map((food)=>(
              <div key={food._id} className='w-auto flex flex-col items-start
justify-between gap-[8px]'>
              <div>
                <img src={food.imageUrl} width={312} height={267}
alt={food.name}/>
              </div>
              <div className='w-full flex flex-col items-start justify-between
gap-[8px]'>

               <h3 className='font-bold text-[18px]'>{food.name}</h3>
               <div className='w-auto flex flex-row items-start justify-between
gap-[16px]'>
                <div className='text-
[#FF9F0D]'>${food.originalPrice.toFixed(2)}</div>
                 <div>{food.price? <div className='text-[#828282] line-
through'>${food.price.toFixed(2)}</div> : <div className='hidden'></div>}</div>
               </div>
                </div>
```

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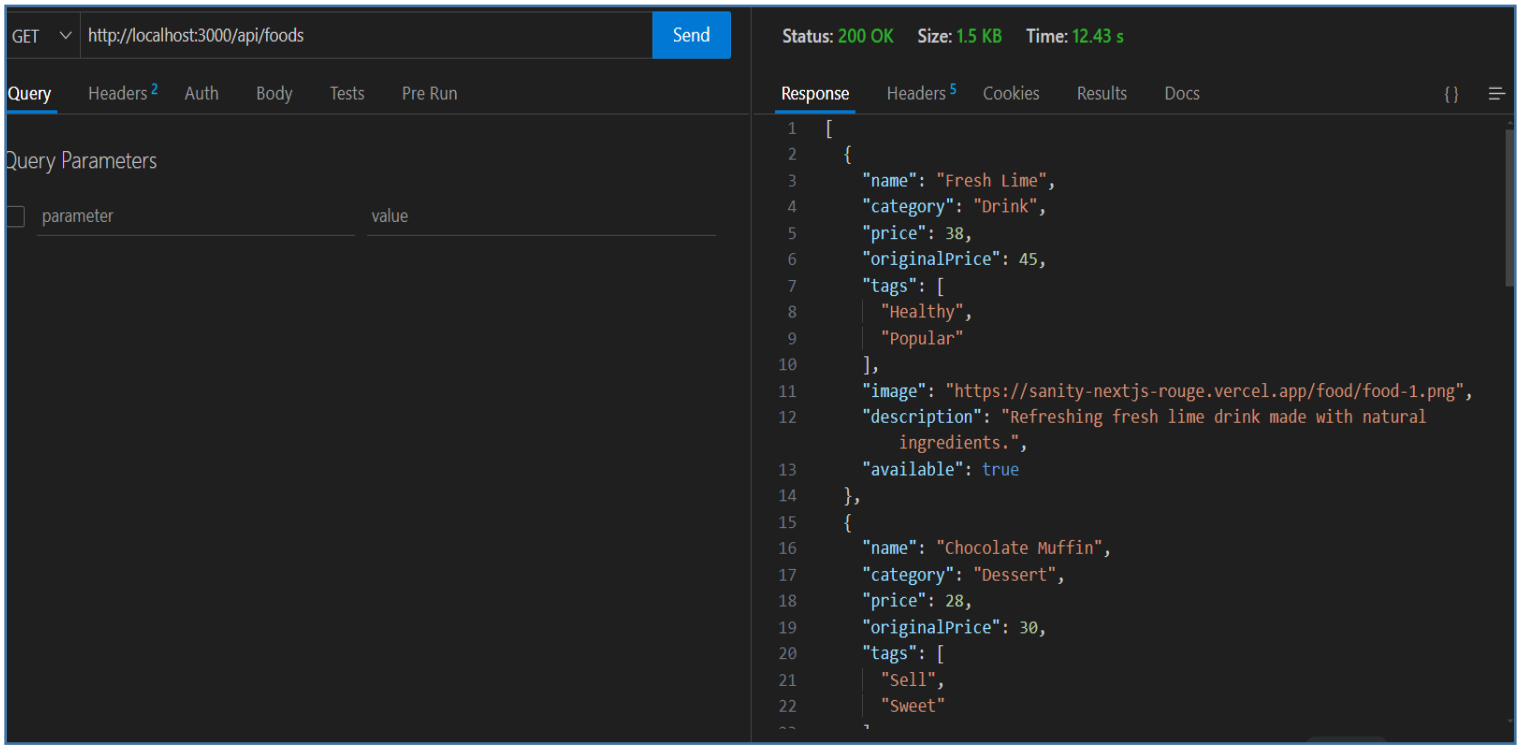
```
                <Button variant="primary" size="none" className='p-1 px-2'><Link
href={`/Shop/${food._id}`} className='text-[14px]'>Order Now!</Link></Button>
              </div>
            ))}
          </div>
 )
}

export default shop
```

3. Testing Endpoints:
    - To test endpoints, we used thunder client

Testimony:



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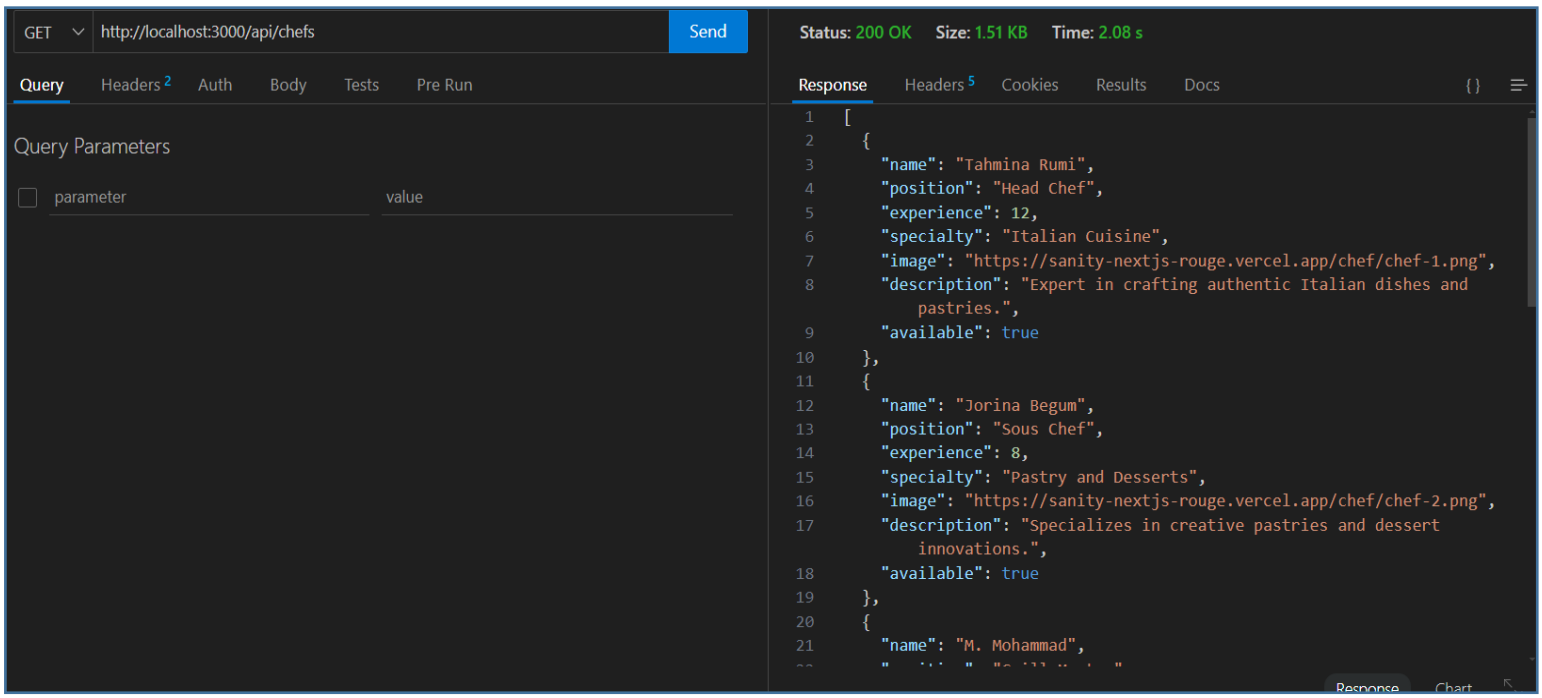

Challenges I Face:

- Making Sure Mapping not get crash
- Making sure that fetching of data is correct
- Inspection of dynamic changes

Outputs:

• Chefs Data: Displayed dynamically on the "Our Chefs" page.
• Foods Data: Rendered as a menu card

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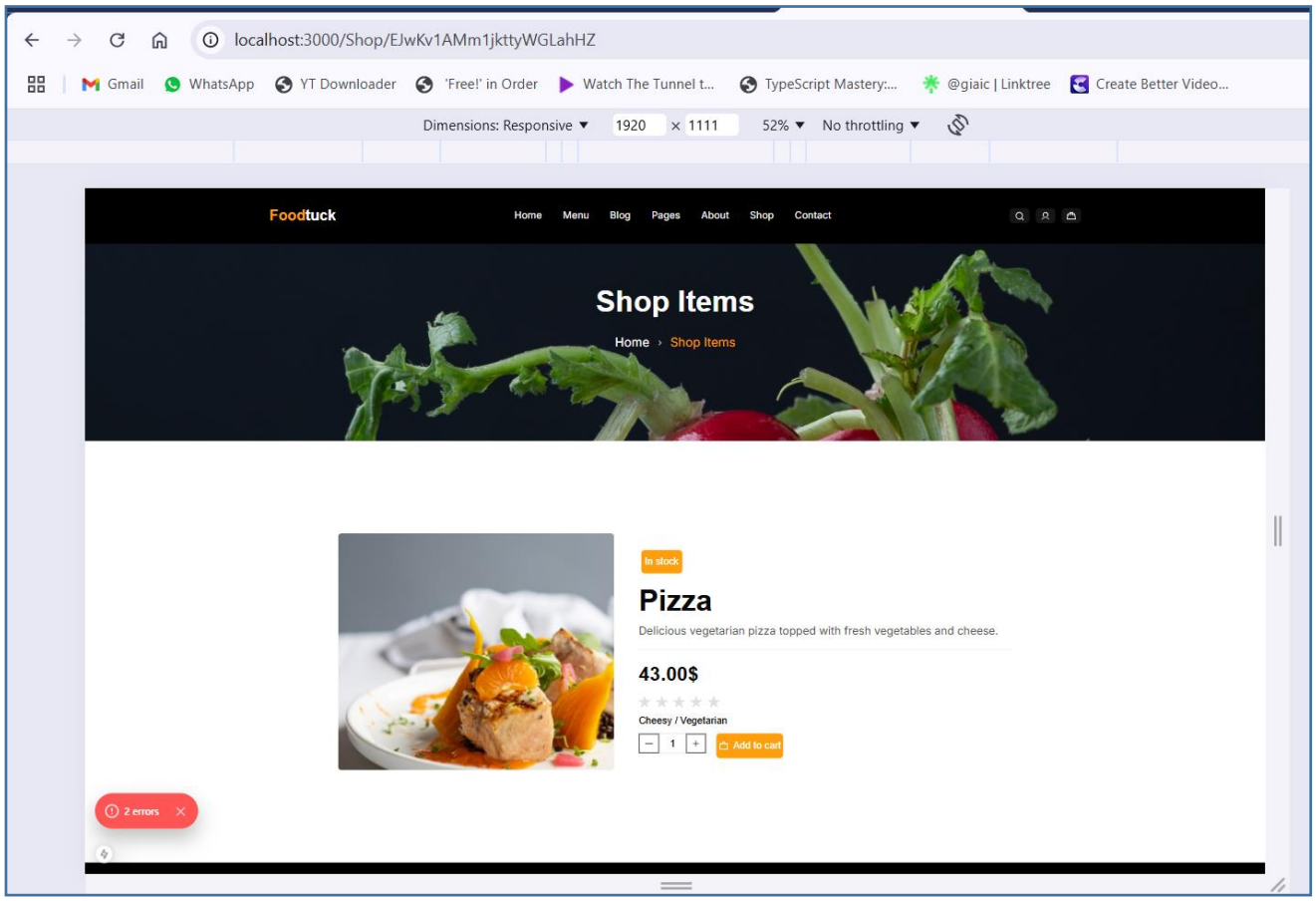
OUR SHOP(Dynamic Route):



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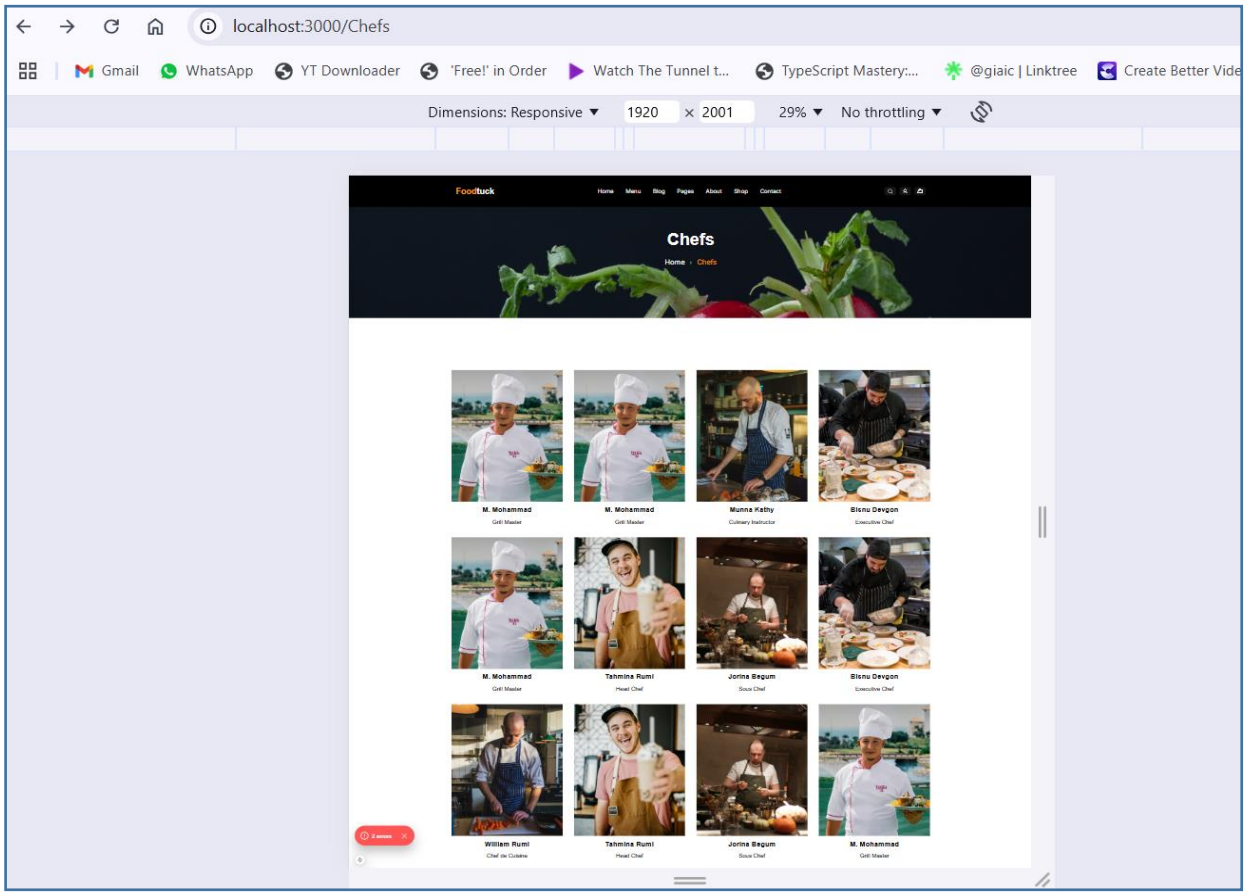
CHEFS:



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OUR SHOP