

Day 3 - API Integration and Data Migration

Step 1: API Integration Summary

API URL: <https://hackathon-apis.vercel.app/api/products>

- This API provides product data for our marketplace.
- Next.js fetches this data and displays it on the frontend.

Step 2: Sanity Schema Adjustments

API Response Example:

```
{ 'id': '1', 'title': 'Wooden Dining Table', 'description': 'Premium quality table', 'price': 25000, 'category': 'Furniture', 'image': 'https://example.com/table.jpg', 'stock': 10 }
```

Sanity Schema (Updated):

```
export default {  
  name: 'product', type: 'document', title: 'Product',  
  fields: [  
    { name: 'title', type: 'string', title: 'Product Name' },  
    { name: 'description', type: 'text', title: 'Description' },  
    { name: 'price', type: 'number', title: 'Price' },  
    { name: 'category', type: 'string', title: 'Category' },  
    { name: 'image', type: 'image', title: 'Product Image' },  
    { name: 'stock', type: 'number', title: 'Stock Available' }  
  ]  
};
```

Step 3: Data Migration Steps

1. Fetch data from API.
2. Transform and insert data into Sanity CMS.
3. Run migration script to import products.

Migration Script Example:

```
import fetch from 'node-fetch';  
import client from '../sanityClient.js';
```

```

const API_URL = 'https://hackathon-apis.vercel.app/api/products';

async function importProducts() {
  const response = await fetch(API_URL);
  const products = await response.json();

  for (const product of products) {
    await client.create({ _type: 'product', title: product.title, description: product.description,
      price: product.price, category: product.category, image: { asset: { _ref: product.image } },
      stock: product.stock });
    console.log(`Imported: ${product.title}`);
  }
}

importProducts();

```

Step 4: API Integration in Next.js

Next.js API Call Function:

```

export async function getProducts() {
  const res = await fetch('https://hackathon-apis.vercel.app/api/products');
  const data = await res.json();
  return data;
}

```

Rendering API Data in React Component:

```

import { useEffect, useState } from 'react';
import { getProducts } from '../utils/fetchProducts';

export default function ProductList() {
  const [products, setProducts] = useState([]);

  useEffect(() => {
    async function fetchData() {

```

```

    const data = await getProducts();
    setProducts(data);
  }
  fetchData();
}, []);

return (
  <div>
    <h2>Available Products</h2>
    <ul>
      {products.map((product) => (
        <li key={product.id}>
          <img src={product.image} alt={product.title} width='100' />
          <h3>{product.title}</h3>
          <p>{product.description}</p>
          <p>Price: Rs. {product.price}</p>
        </li>
      ))}
    </ul>
  </div>
);
}

```

Step 5: Documentation & Submission

Final Submission Format:

- Create a 'day-3' folder in your GitHub repository.
- Save this technical document as 'Day_3_API_Integration_Report.pdf'.
- Commit and push it to GitHub using the following commands:

```
git add .
```

```
git commit -m 'Added Day-3 API Integration and Data Migration'
```

```
git push origin main
```