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## HACKATHON DAY 3

### API INTEGRATION AND DATA MIGRATION

#### API Integration Report - [E-Commerce Furniture Website]

Template 2:

- API : <https://hackathon-apis.vercel.app/api/products>
- Sanity Schemas: o <https://github.com/bilalmk/hackathontemplate02/blob/main/schema/category.ts>  
o <https://github.com/bilalmk/hackathontemplate02/blob/main/schema/product.ts>
- Migration Script: <https://github.com/bilalmk/hackathon-template02>

#### Steps of API Integration

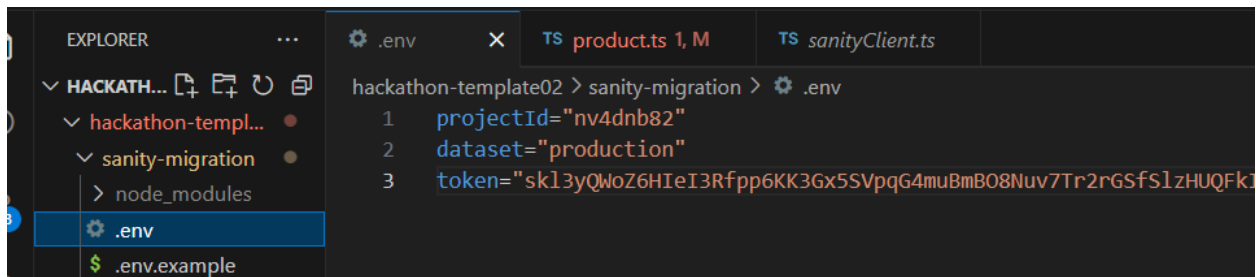
1. Cloning the repository

git clone <https://github.com/bilalmk/hackathon-template02.git>

2. In CMD run following commands

npm install

3. Create .env file and setup three variables



The screenshot shows the VS Code interface. On the left, the Explorer sidebar shows a project structure with folders 'hackathon-templ...' and 'sanity-migration', and a file '.env'. The main editor area shows the content of the '.env' file, which contains three lines of code: 1. `projectId="nv4dnb82"`, 2. `dataset="production"`, and 3. `token="sk13yQwoZ6HIeI3Rfpp6KK3Gx5SVpqG4muBmB08Nuv7Tr2rGSfS1zHUQFk1"`. The file is named 'sanity-migration > .env'.

4. Setup a Sanity Project

- Goto Sanity.io
  - Make new project
  - Copy projectId
  - Make API token
  - Used in .env file
5. Use provided API according to the template in importData.js file

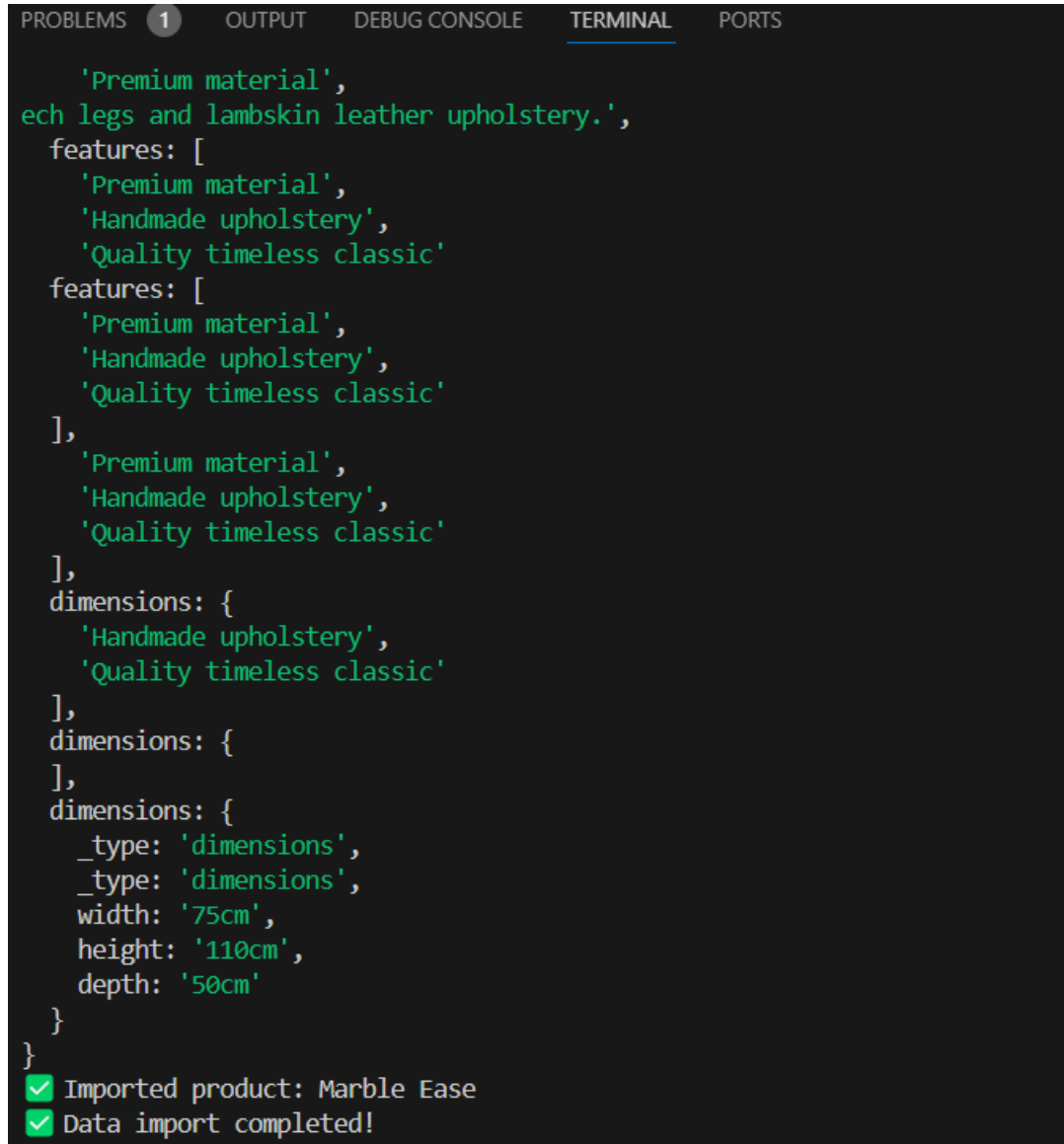
```

async function importData() {
  try {
    // Fetch data from external API
    const response = await axios_1.default.get('https://hackathon-apis.vercel.app/api/products');
    const products = response.data;
  }
}

```

6. Run command in cmd terminal to compile ts file into js

- Tsc
- Node importData.js



```

    'Premium material',
  ech legs and lambskin leather upholstery.',
  features: [
    'Premium material',
    'Handmade upholstery',
    'Quality timeless classic'
  ],
  features: [
    'Premium material',
    'Handmade upholstery',
    'Quality timeless classic'
  ],
    'Premium material',
    'Handmade upholstery',
    'Quality timeless classic'
  ],
  dimensions: {
    'Handmade upholstery',
    'Quality timeless classic'
  ],
  dimensions: {
  ],
  dimensions: {
    _type: 'dimensions',
    _type: 'dimensions',
    width: '75cm',
    height: '110cm',
    depth: '50cm'
  }
}
}

```

✓ Imported product: Marble Ease  
 ✓ Data import completed!

7. Now run this command

npm create sanity@latest -- --project nv4dnb82 --dataset production --template clean

```

D:\Figma_Hackathon\Furniture_Website_Template\template>code .

D:\Figma_Hackathon\Furniture_Website_Template\template>npm create sanity@latest

> template@0.1.0 npx
> create-sanity

✓ You are logged in as rameenrashid15@gmail.com using Google
✓ Fetching existing projects

? Create a new project or select an existing one hackathon-day3 (nv4dnb82)
? Select dataset to use production
? Would you like to add configuration files for a Sanity project in this Next.js folder? Yes
? Do you want to use TypeScript? Yes
? Would you like an embedded Sanity Studio? Yes
? What route do you want to use for the Studio? /studio
? File \src\app\studio\[[...tool]]\page.tsx already exists. Do you want to overwrite it? Yes
? File \sanity.config.ts already exists. Do you want to overwrite it? Yes
? File \sanity.cli.ts already exists. Do you want to overwrite it? Yes
? Select project template to use Clean project with no predefined schema types
? File \src\sanity\env.ts already exists. Do you want to overwrite it? Yes
? File \src\sanity\lib\client.ts already exists. Do you want to overwrite it? Yes
? File \src\sanity\lib\live.ts already exists. Do you want to overwrite it? Yes
? File \src\sanity\lib\image.ts already exists. Do you want to overwrite it? Yes
? File \src\sanity\schemaTypes\index.ts already exists. Do you want to overwrite it? Yes
? File \src\sanity\structure.ts already exists. Do you want to overwrite it? Yes
? Would you like to add the project ID and dataset to your .env.local file? Yes
Running 'npm install --legacy-peer-deps --save @sanity/vision@3 sanity@3 @sanity/image-url@1 styled-components@6'

removed 2 packages, and audited 1306 packages in 16s

244 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities

up to date, audited 1306 packages in 7s

244 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities

Success! Your Sanity configuration files has been added to this project

```

## 8. Adjust Schema

```

sanity > schemaTypes > TS products > product > fields
import { defineType, defineField } from "sanity";

export const product = defineType({
  name: "product",
  title: "Product",
  type: "document",
  fields: [
    defineField({
      name: "name",
      title: "Title",
      validation: (rule) => rule.required(),
      type: "string"
    }),
    defineField({
      name: "slug",
      title: "Slug",
      validation: (rule) => rule.required(),
      type: "slug"
    }),
    defineField({
      name: "image",
      type: "image",
      validation: (rule) => rule.required(),
      title: "Product Image"
    }),
    defineField({
      name: "price",
      type: "number",
      validation: (rule) => rule.required(),
      title: "Price",
    }),
    defineField({
      name: "quantity",
      title: "Quantity",
      type: "number",
      validation: (rule) => rule.min(0),
    }),
    defineField({
      name: "tags",
      type: "array",
      title: "Tags",
      of: [{
        type: "string"
      }]
    })
  ]
});

```

## 9. Define SchemaTypes

```

src > sanity > schemaTypes > TS index.ts > ...
1  import { type SchemaTypeDefinition } from 'sanity'
2  import { product } from './product'
3
4  export const schema: { types: SchemaTypeDefinition[] } = {
5    types: [product],
6  }
7

```

## 10. Fetching Data

```

8 import Footer from "../(store)/component/footer";
9 import {client} from "@sanity/lib/client";
10
11 const getProducts = async () =>{
12   const products = await client.fetch(
13     `
14     *[_type=="product"]{
15       _id,
16       name,
17       description,
18       quantity,
19       price,
20       "image_url":image.asset->url,
21       rating
22     }
23     `
24   )
25   return products
26 }
27
28 export default async function Home() {
29   const products = await getProducts()
30   console.log(products)
31   return (
32     <div>
33       <Navbar/>
34       <Homev1/>

```

11. Made changes in package.json file add "import-data" : "node script/importData.js"

```

{} package.json > {} scripts > dev
1 {
2   "name": "template",
3   "version": "0.1.0",
4   "private": true,
5   "type": "module",
6   "scripts": {
7     "dev": "next dev",
8     "build": "next build",
9     "start": "next start",
10    "lint": "next lint",
11    "import-data": "node script/importData.js"
12  },

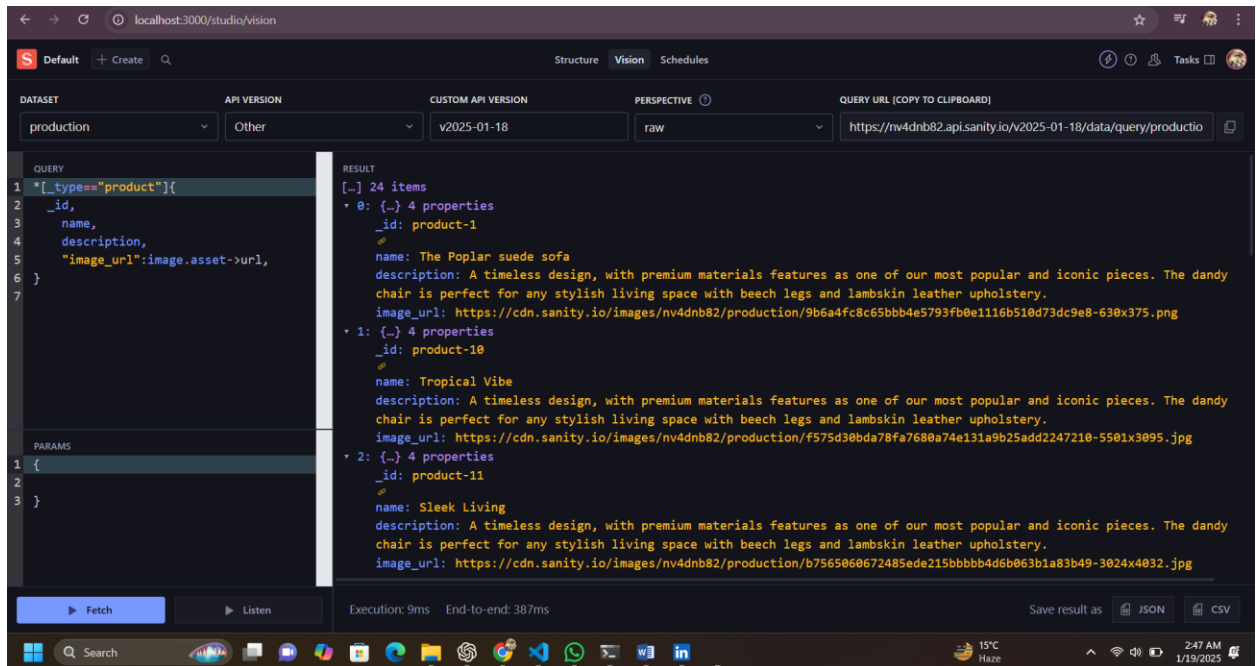
```

12. Run commands in cmd terminal

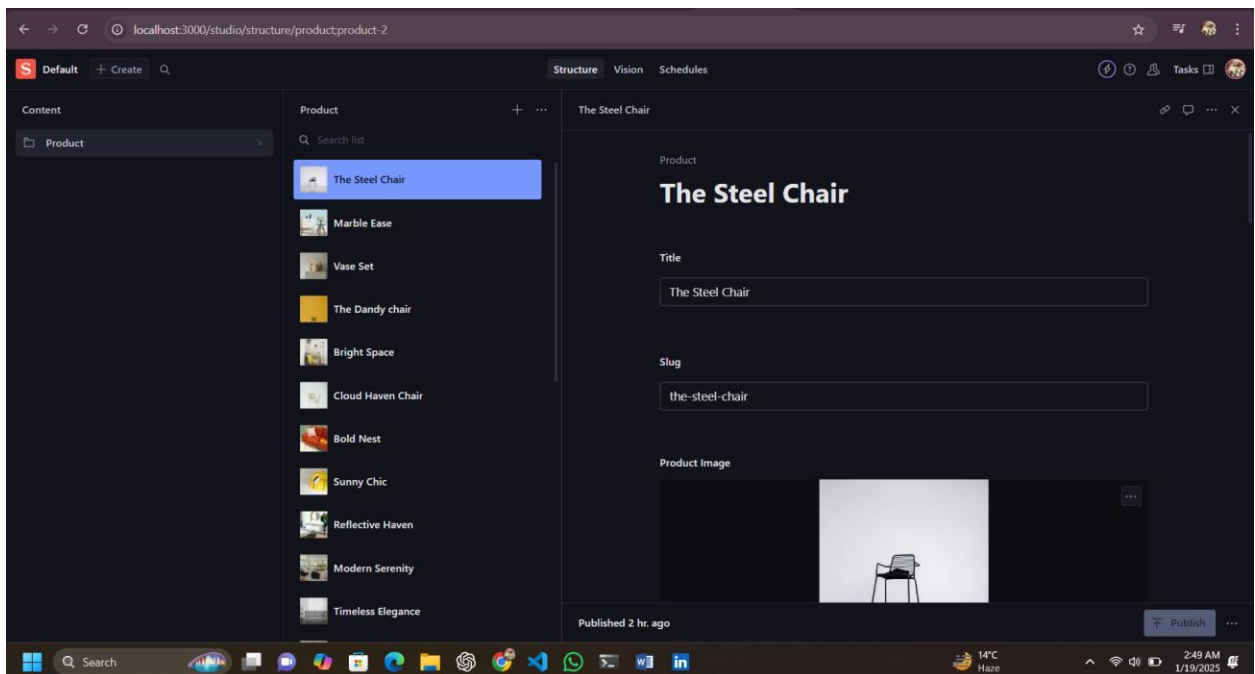
- npm install @sanity/client axios dotenv

- npm run import-data
- node script/importData.js
- npm run dev

### 13. Goto localhost3000/studio/vision



Localhost3000/studio/structure



### Day 3 Checklist:

Self-Validation Checklist:

API Understanding:

☒ ✓

Schema Validation:

☒ ✓

Data Migration:

☒ ✓

API Integration in Next.js:

☒ ✓

Submission Preparation:

☒ ✓

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