

Day 3 - API Integration Report – Hecto E-commerce Date: 18-01-2025

Overview:

On Day 3, the focus was on integrating the API for fetching product data into the **Hecto** Furniture E-commerce website. This involved setting up API endpoints, fetching data using **Hacto**, and ensuring seamless integration with the front-end components.

API Integration Process:

Step 1: API Endpoint Setup

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

Data Structure: The API provides product data including productName, description, image, _id, features, dimensions, category, and price

Step 2: Fetch Data from API

Library Used: **Hacto** was used to fetch data from the API.

`{}` package.json M X

`{}` package.json > ...

```
1  {
2    "name": "figma_project",
3    "version": "0.1.0",
4    "private": true,
5    "scripts": {
6      "dev": "next dev",
7      "build": "next build",
8      "start": "next start",
9      "lint": "next lint",
10     "import-data": "node scripts/import-data.mjs"
11   },
12   "dependencies": {
13     "@heroicons/react": "^2.2.0",
14     "next/font": "^14.2.15",
15     "@sanity/image-url": "^1.1.0",
16     "@sanity/vision": "^3.70.0",
17     "next": "15.1.0",
18     "next-sanity": "^9.8.38",
19     "react": "^19.0.0",
20     "react-dom": "^19.0.0",
21     "react-icons": "^5.4.0",
22     "sanity": "^3.70.0",
23     "styled-components": "^6.1.14"
```

← →

figma_project

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`$` .env.local X

`$` .env.local

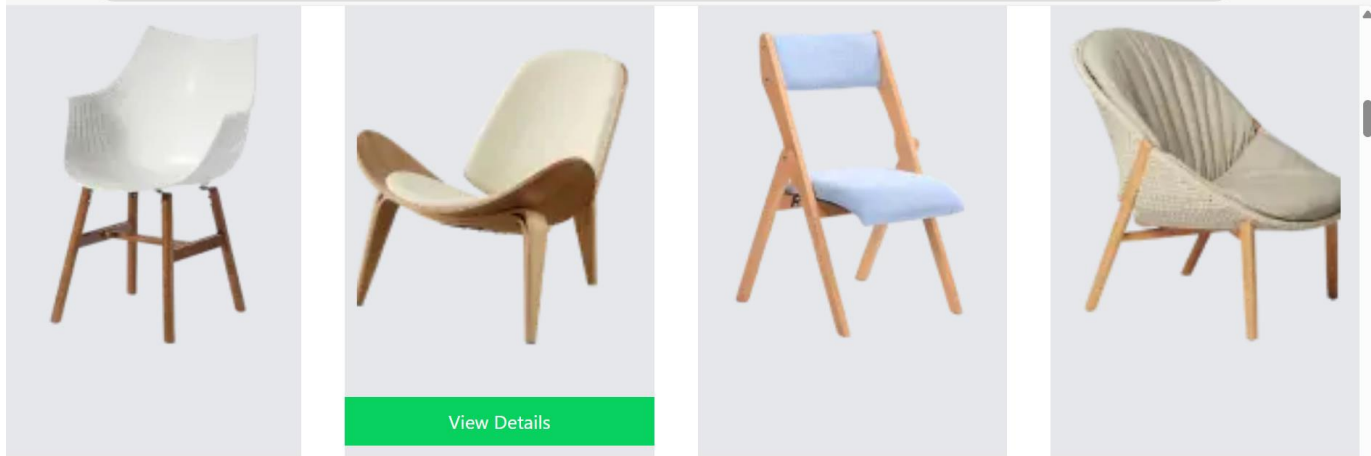
```
1  NEXT_PUBLIC_SANITY_API_VERSION="2025-01-15"
2  NEXT_PUBLIC_SANITY_PROJECT_ID="ceq8w7at"
3  NEXT_PUBLIC_SANITY_DATASET="production"
4  SANITY_API_TOKEN=="skhH6mLOjSjIBstpoXRCx4lot6EKkMZ8acpBFOW1LyTQYg4cZn2NwwY3Ma6hbNhuJ71oK1jp1sVHHaoHZsh5>
```

```
File Edit Selection View Go Run ...  
figma_project  
EXPLORER  
FIGMA_PROJECT  
src  
app  
studio  
404.tsx  
favicon.ico  
globals.css  
layout.tsx  
page.tsx  
prop-types.d.ts  
components  
sanity  
lib  
schemaTypes  
index.ts  
product.ts  
env.ts  
structure.ts  
env.local  
.gitignore  
eslint.config.mjs  
next-env.d.ts  
next.config.ts  
package-lock.json  
package.json  
OUTLINE  
TIMELINE  
main* 01:41 0 0 0  
Ln 65, Col 5 Spaces: 2 UTF-8 CRLF TypeScript Go Live tabnine preview Prettier
```

```
src > sanity > schemaTypes > TS product.ts > default  
1 export default {  
2   name: 'product',  
3   type: 'document',  
4   title: 'Product',  
5   fields: [  
6     {  
7       name: 'name',  
8       type: 'string',  
9       title: 'Name',  
10      validation: (Rule: any) => Rule.required().error('Name is required'),  
11    },  
12    {  
13      name: 'image',  
14      type: 'image',  
15      title: 'Image',  
16      options: {  
17        hotspot: true,  
18      },  
19      description: 'Upload an image of the product.',  
20    },  
21    {  
22      name: 'price',  
23      type: 'string',  
24      title: 'Price',  
25      validation: (Rule: any) => Rule.required().error('Price is required'),  
26    },  
27    {  
28      name: 'description',  
29      type: 'text',  
30    },  
31  ],  
32 }
```

```
File Edit Selection View Go Run ...  
figma_project  
EXPLORER  
FIGMA_PROJECT  
.next  
node_modules  
public  
scripts  
import-data.mjs  
src  
app  
about  
account  
blog  
cart  
checkout  
contact-us  
createaccount  
creatorpage  
faq  
fonts  
forgetpassword  
ordercompleted  
shoplist  
signup  
studio  
404.tsx  
OUTLINE  
TIMELINE  
main* 01:41 0 0 0  
Ln 37, Col 1 UTF-8 CRLF JavaScript Go Live tabnine preview Prettier
```

```
scripts > JS import-data.mjs > client > token  
9 const __filename = fileURLToPath(import.meta.url);  
10 const __dirname = path.dirname(__filename);  
11 dotenv.config({ path: path.resolve(__dirname, '../.env') });  
12  
13 const client = createClient({  
14   projectId: 'ceq8w7at',  
15   dataset: 'production',  
16   token: 'skhH6mL0jSjIBstpoXRCx4lot6EKkMZ8acpBFW01LyTQYg4cZn2NwwY3Ma6hbNhuJ71oK1jP1sVHHaoHZsh5x1Gf13a84c',  
17   apiVersion: '2025-01-15',  
18   useCdn: true  
19 });  
20  
21 Tabnine | Edit | Test | Explain | Document  
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     });  
30     console.log('Image Uploaded Successfully : ${asset.id}');  
31     return asset.id;  
32   } catch (error) {  
33     console.error('Failed to Upload Image:', imageUrl, error);  
34     return null;  
35   }  
36 }  
37
```



Cantilever Chair

Cantilever Chair

Cantilever Chair

Cantilever Chair



Code - Y523201

\$42.00

Code - Y523201

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Code - Y523201

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Code - Y523201

\$42.00

Responsive Design Website

Vision | Default

hacto e-commerce - API | Sanity.io

localhost:3004/studio/vision

S Default

+ Create

Q

Structure

Vision

Schedules

⚡ ? 👤 Tasks

DATASET

production

API VERSION

Other

CUSTOM API VERSION

v2025-01-15

PERSPECTIVE

raw

QUERY URL [COPY TO CLIPBOARD]

https://ceq8w7at.api.sanity.io/v2025-01-

QUERY

1 *[type==product]

PARAMS

1 {

2

3 }

RESULT

[...] 52 items

0: { ... } 13 properties

_type: product

stockLevel: 5

name: Uchiwa Quilted Lounge Chair

_id: 0e0ztuJY6NWdyb1BESp39

isFeaturedProduct: true

image: { ... } 2 properties

_type: image

Fetch

Listen

Execution: 16ms End-to-end: 1710ms

Save result as

JSON

CSV

blob:http://localhost:3004/f895a61f-0a63-40ac-84cc-f9fa78c20588

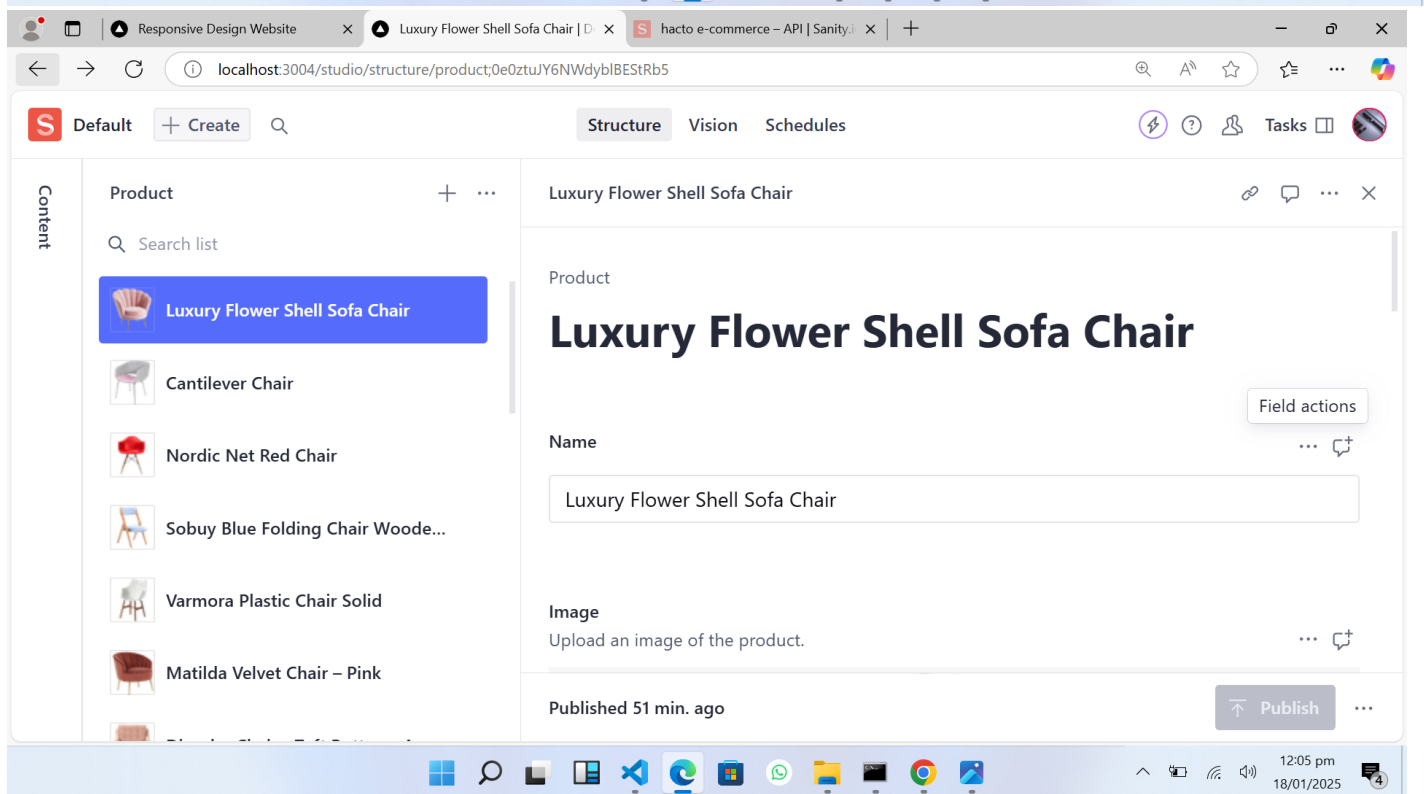
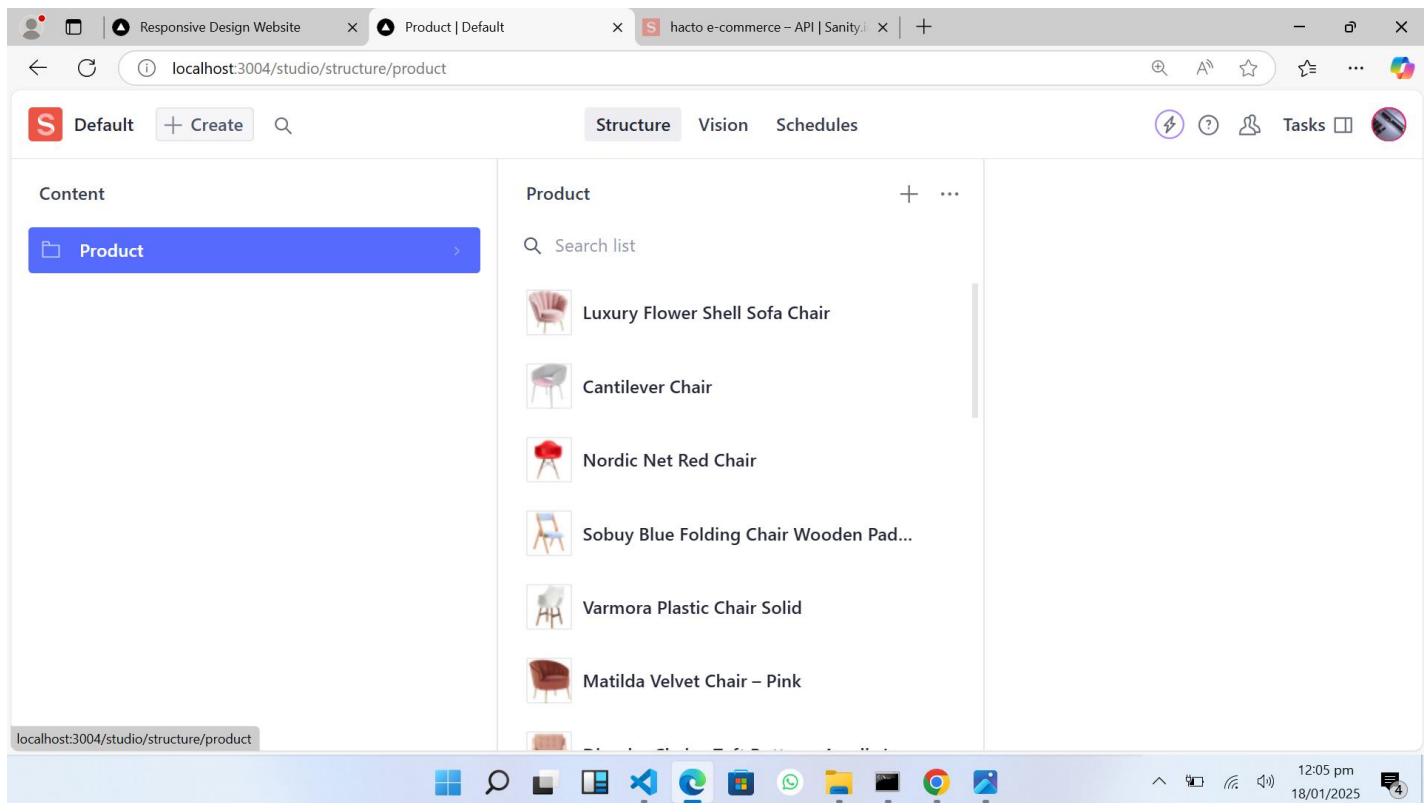


12:03 pm
18/01/2025

A screenshot of the Sanity.io web interface. The browser address bar shows the URL: https://www.sanity.io/manage/personal/project/ceq8w7at/api#cors-origins. The user is logged in as 'Nadia Shaikh' and is viewing the 'hacto e-commerce' project. The navigation bar includes links for 'Getting started', 'Overview', 'Members', 'Studios', 'Datasets', 'Access', 'Activity', 'Usage', 'Plan', 'API' (highlighted), and 'Settings'. On the left sidebar, 'Webhooks' and 'Tokens' are listed, with 'CORS origins' selected and highlighted in blue. The main content area is titled 'CORS origins' and includes a sub-header 'Hosts that can connect to the project API.' and a '+ Add CORS origin' button. Below this is a table with three columns: 'ORIGIN', 'CREDENTIALS', and 'CREATED'. The table contains three entries, all with 'Allowed' credentials and a creation time of '7 minutes' or '7 hours'. Each entry has a trash icon for deletion. At the bottom, there is a 'Tokens' section with a '+ Add API token' button.

The screenshot displays the Sanity.io API Tokens management interface. The top navigation bar includes the user profile 'Nadia Shaikh' and the project name 'hacto e-commerce'. The main navigation menu on the left contains links for 'Getting started', 'Overview', 'Members', 'Studios', 'Datasets', 'Access', 'Activity', 'Usage', 'Plan', 'API', and 'Settings'. The 'API' section is currently active, showing a list of tokens. The table lists one token, 'hacto_token', with 'Editor' permissions and a creation time of '7 hours'. A '+ Add API token' button is visible in the top right corner of the tokens list. The bottom status bar shows 'SANITY' with 'ALL SYSTEMS OPERATIONAL' and a copyright notice for 2025.

NAME	PERMISSIONS	CREATED
hacto_token	Editor	7 hours



Responsive Design Website x Vision | Default x hacto e-commerce - API | Sanity.io x

localhost:3004/studio/vision

Default + Create

Structure Vision Schedules

DATASET API VERSION CUSTOM API VERSION PERSPECTIVE QUERY URL [COPY TO CLIPBOARD]

production Other v2025-01-15 raw https://ceq8w7at.api.sanity.io/v2025-01-

QUERY

```
1 *[type==product]
```

PARAMS

```
1 {  
2  
3 }
```

RESULT

```
[...] 52 items  
▼ 0: {...} 13 properties  
  _type: product  
  stockLevel: 5  
  name: Uchiwa Quilted Lounge Chair  
  _id: 0e0ztuJY6NWdyblBESp39  
  isFeaturedProduct: true  
  image: {...} 2 properties  
    _type: image
```

Fetch Listen

Execution: 16ms End-to-end: 1710ms Save result as JSON CSV

blob:http://localhost:3004/f895a61f-0a63-40ac-84cc-f9fa78c20588

File Edit Selection View Go Run ...

portfolio-app

EXPLORER

- PORTFOLIO-APP
 - .next
 - node_modules
 - public
 - src/app
 - fonts
 - favicon.ico
 - globals.css
 - layout.tsx
 - page.tsx
 - eslint.config.js
 - next-env.d.ts
 - next.config.mjs
 - package-lock.json
 - package.json
 - postcss.config.mjs
 - README.md
 - tailwind.config.ts
 - tsconfig.json
 - OUTLINE
 - TIMELINE

package-lock.json

```
1 {  
2   "name": "portfolio-app",  
3   "version": "0.1.0",  
4   "lockfileVersion": 3,  
5   "requires": true,  
6   "packages": {  
7     "": {  
8       "name": "portfolio-app",  
9       "version": "0.1.0",  
10      "dependencies": {  
11        "next": "14.2.21",  
12        "react": "^18",  
13        "react-dom": "^18"  
14      },  
15      "devDependencies": {  
16        "@types/node": "^20",  
17      }  
18    }  
19  }  
20 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
> next dev  
  
▲ Next.js 14.2.21  
- Local: http://localhost:3000  
  
✓ Starting...  
✓ Ready in 3.8s  
o Compiling / ...  
✓ Compiled / in 5.1s (548 modules)  
✓ Compiled in 758ms (254 modules)  
GET / 200 in 5901ms
```

Ln 1, Col 1 Spaces: 2 UTF-8 LF JSON Go Live Prettier

2:28 am 08/01/2025