

Hackathon_3

Day 3-APIs Integrating and Data Migration

The focus for Day 3 is integrating APIs and migration data into sanity CMS to build functional marketplace backend. Students will learn how to utilize APIs for reference, migrate data into Sanity CMS, and ensure compatibility with their templates. This approach replicates real-world practices and prepares students to handle diverse client requirement, includind integrating headless APIs or migration existing data from popular E-Commerce platfroms.

Document Title: "Day 3-API Integration Report - [E_commerce website]"

What to Subment: o

A report documenting:

- API integration process.
- Adjustments made to schemas.
- Migration steps and tools used.

Screenshots of:

- API calls.
- Data successfulls displayed in the frontend.
- Populated Sanity CMS fields.
- Code snippets for API integration and migration scripts.

```
C:\codes\typescript.It\Quator 2 assignment-test\hacathon_6>npm create sanity@latest
Need to install the following packages:
  create-sanity@3.70.0
Ok to proceed? (y)

> hacathon_6@0.1.0 npx
> create-sanity

/ You are logged in as taimoorhassansamiullahjan@gmail.com using GitHub
/ Fetching existing projects

? Create a new project or select an existing one Create new project
? Your project name: template_6_day_3
Your content will be stored in a dataset that can be public or private, depending on
whether you want to query your content with or without authentication.
The default dataset configuration has a public dataset named "production".
? Use the default dataset configuration? Yes
/ Creating dataset
? Would you like to add configuration files for a Sanity project in this Next.js folder? Yes
⚠️
⚠️ It looks like you are using Next.js 15 and React 19
⚠️ Please read our compatibility guide.
⚠️ https://www.sanity.io/help/react-19

? Do you want to use TypeScript? Yes
? Would you like an embedded Sanity Studio? Yes
```

Activate Windows
Go to Settings to activate

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Activate Windows
Go to Settings to activate

The screenshot shows the Sanity Studio interface with a token configuration dialog open. The top navigation bar includes tabs for 'Getting started', 'Overview', 'Members', 'Studios', 'Datasets', and 'Access'. The 'Access' tab is active, and the 'website preview' section is highlighted. On the left, there are tabs for 'Webhooks', 'CORS origins', and 'Tokens', with 'Tokens' currently selected. The main content area is titled 'Permissions' and contains a sub-section 'Choose the access privileges for the token.' It lists several roles with radio buttons:

- Contributor (radio button is unselected)
- Deploy Studio (Token only) (radio button is unselected)
- Developer (radio button is selected)
- Editor (radio button is unselected)
- Viewer (radio button is unselected)

Below the roles, there are descriptions for each: 'Read and write access to draft content within all data project settings. (Tokens: read+write drafts)' for Contributor, 'Access to deploy Sanity Studio and GraphQL APIs to external services' for Deploy Studio, 'Read and write access to all datasets, with access to published content' for Developer, 'Read and write access to all datasets, with limited access to unpublished content' for Editor, and 'Read access to all datasets, with limited access to unpublished content (read-only)' for Viewer.

At the bottom right of the dialog are 'Save' and 'Cancel' buttons. A 'What's new' sidebar on the left lists 'Sanity Create Content Mapping, Visual Editing, and Content Releases'.

The screenshot shows a code editor with an 'EXPLORER' sidebar on the left displaying a project structure with files like '.next', 'node_modules', 'public', 'src/app', 'src/lib', 'src/sanity', and '.env.local'. The main editor area shows the content of the '.env.local' file:

```
$ .env.local
1 NEXT_PUBLIC_SANITY_PROJECT_ID="1k33p9o6"
2 NEXT_PUBLIC_SANITY_DATASET="production"
3 SANITY_API_TOKEN="skMXF3L6GsQU7ezCdu7kN6ZhG3zJolQjsGjPWF1R4yI
```

```
File Edit Selection View Go ... ⏪ ⏩ hacathon_6 [Administrator]
EXPLORER ... page.tsx ...\\shop page.tsx ...\\singleproductpage layout
HACATHON_6
> .next
> node_modules
> public
16 > src
> app
> components
> lib
> lip
> sanity
> lib
> schemaTypes
  TS authorType.ts
  TS blockContentType.ts
  TS categoryType.ts
  TS index.ts
  TS postType.ts
  TS product.ts
  TS env.ts
  TS structure.ts
$ .env.local
> OUTLINE
> TIMELINE
src > sanity > schemaTypes > TS product.ts > [A] A
      3   export const product = defineType({
      4     fields: [
      5       {
      6         name: "price",
      7         type: "number",
      8         validation: (rule) => rule.required(),
      9         title: "Price",
     10       },
     11       {
     12         name: "tags",
     13         type: "array",
     14         title: "Tags",
     15         of: [{ type: "string" }]
     16       },
     17       {
     18         name: "discountPercentage",
     19         type: "number",
     20         title: "Discount Percentage",
     21       },
     22       {
     23         name: "isNew",
     24         type: "boolean",
     25         title: "New Badge",
     26       }
     27     ]
     28   }
     29 }
     30 }
     31 }
     32 }
     33 }
     34 }
     35 }
     36 }
     37 }
     38 }
     39 }
     40 }
     41 }
     42 }
     43 }
     44 }
     45 }
     46 }
     47 }
     48 }
     49 })A
```

Reflective Haven | Default

localhost:3000/studio/structure/product/guOOpEnA2MF0tb6KMk8Ytd

Furniro

Home Shop Blog Contact

S Default + Create Q Structure Vision Schedules

Blog Posts Categories Authors Product

Product Search Intl. Reflective Haven

Sunny Chic Reflective Haven

Reflective Haven Modern Serenity

Timeless Elegance Nordic Elegance

Serene Seat Sleek Living Tropical Vibe

Create a sanctuary of ... designed to bring peace. Inspired by serene environments, those seeking a retreat from the bustle of life are invited to slow down and reflect.

The pieces in the Reflective Haven collection feature clean lines, neutral tones, and a harmonious blend of textures. From minimalist coffee tables to thoughtfully crafted wooden chairs, each piece is designed to invite you to slow down, reflect, and find a sense of peace in your home.

What's new
Sanity Create Content Mapping, Visual Editing, and Content Releases

Vision | Default

localhost:3000/studio/vision

Furniro

Home Shop Blog Contact

S Default + Create Q Structure Vision Sc

DATASET API VERSION CUSTOM API VERSION PERSPEC

production Other v2025-01-20 raw

QUERY

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

space that reflects your bold, unique style. It's a statement piece that adds a touch of luxury to any room.

isNew: false

title: Bold Nest Chair

+ 2: { } 12 properties

_type: product

_id: YKibMQTWp3Lz5boBgUk4B

title: Cloud Haven Chair

price: 230

_createdAt: 2025-01-21T18:07:11Z

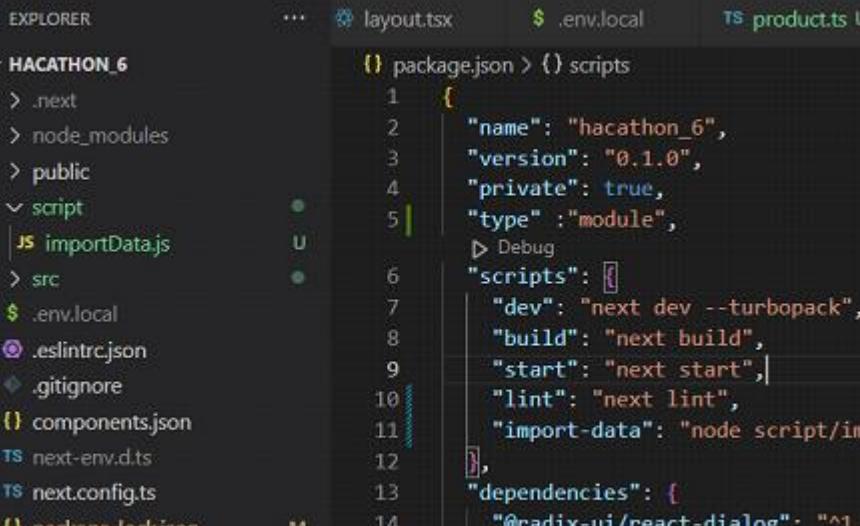
description: Sink into comfort with the ultra-comfortable, inviting experience of the Cloud Haven Chair. Its plush cushioning provides a seating experience like no other. The Cloud Haven Chair is perfect for your living room, bedroom, or cozy nook. The Cloud Haven Chair is a must-have for anyone looking for a comfortable and stylish addition to their home.

PARAMS

```
1 {
2
3 }
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, ...
- Status Bar:** ...\\singleproductpage, layout.tsx, .env.local
- Explorer:** Shows the project structure under "HACATHON_6". The "script" folder is expanded, showing files like importData.js, next-env.d.ts, next.config.ts, package-lock.json, package.json, postcss.config.mjs, README.md, sanity.cli.ts, sanity.config.ts, tailwind.config.ts, and tsconfig.json.
- Editor:** The "importData.js" file is open in the editor. The code defines a client object with projectId, dataset, useCdn, apiVersion, and token properties, and an uploadImageToSanity function that uses fetch to upload an image and return a buffer.
- Bottom Bar:** Outline and Timeline tabs are visible.



```
File Edit Selection View Go ... ← → 🔎 hacathon_6

EXPLORER ... layout.tsx $ .env.local TS product.ts U

HACATHON_6
  .next
  node_modules
  public
    script
      importData.js
    src
  .env.local
  .eslintrc.json
  .gitignore
  components.json
  next-env.d.ts
  next.config.ts
  package-lock.json M
  package.json M
  postcss.config.mis

package.json > scripts
1  {
2    "name": "hacathon_6",
3    "version": "0.1.0",
4    "private": true,
5    "type": "module",
6    "scripts": [
7      "dev": "next dev --turbopack",
8      "build": "next build",
9      "start": "next start",
10     "lint": "next lint",
11     "import-data": "node script/import-data"
12   ],
13   "dependencies": {
14     "@radix-ui/react-dialog": "^1.1.0",
15     "@sanity/client": "^6.25.0",
16     "@sanity/icons": "^3.5.7",
17   }
18 }
```



A product detail page for a "Leviosa" chair. The image shows a dark wooden chair with a curved backrest. Below the image is a white "Add to cart" button with orange text. Underneath the button are social sharing links: "Share" with a share icon, "Compare" with a compare icon, and "Like" with a heart icon. The product name "Leviosa" is in bold black text, followed by the description "Stylish cafe chair". The price is listed as "Rp 2.500.000".

Leviosa

Stylish cafe chair

Rp 2.500.000

