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# HACKATHON 03

## DAY 03

### TEMPLATE ZERO

### API INTEGRATION AND DATA MIGRATION





## Installed Sanity:

First, we installed Sanity CMS using the command

```
: \hackathon-00>npm create sanity@latest
q2hackathon@0.1.0 npx
create-sanity

You are logged in as warishaakram2005@gmail.com using Google
Fetching existing projects

Create a new project or select an existing one Create new project
Your project name: day3
our 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
What route do you want to use for the Studio? /studio
Select project template to use Clean project with no predefined schema types
Would you like to add the project ID and dataset to your .env.local file? Yes
Added http://localhost:3000 to CORS origins
Running 'npm install --legacy-peer-deps --save @sanity/vision@3 sanity@3 @sanity/image-url@1 styled-components@6'
npm warn deprecated @sanity/block-tools@3.70.0: Renamed - use `@portabletext/block-tools` instead. `@sanity/block-tools` will no longer receive updates.
```

This setup was successful, and the Sanity Studio was configured.

```
Run `npm audit` for details.

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

D:\hackathon-00> SS
```



## Generated Sanity Token

Next, we generated a token for secure API access:

## Navigated to Sanity Project Settings.

Created a new token with the required permissions (Read/Write).

The screenshot shows the Sanity project settings interface. The top navigation bar includes 'Getting started', 'Overview', 'Members', 'Studios', 'Datasets', 'Access', 'Activity', 'Usage', 'Plan', 'API' (which is selected), and 'Settings'. A banner at the top right indicates '21 days left in trial'. The main content area has tabs for 'Webhooks' (selected) and 'CORS origins'. Under 'CORS origins', there is a table with three rows, each with an origin URL ('https://zero-by-warisha-itkt.vercel.app', 'https://zero-by-warisha-wfxd.vercel.app', and 'http://localhost:3000') and a status column showing 'Allowed'. A button '+ Add CORS origin' is visible. Below this is a 'Tokens' section with a table showing one token named 'zero-to-hero' with permission 'Developer' and created '1 week ago'. A 'What's new' sidebar on the left lists 'Sanity Create Content Mapping, Visual Editing,'.

The screenshot shows the Sanity project settings interface, similar to the previous one but with a different focus. The top navigation bar includes 'Getting started', 'Overview', 'Members', 'Studios', 'Datasets', 'Access', 'Activity', 'Usage', 'Plan', 'API' (selected), and 'Settings'. A banner at the top right indicates '21 days left in trial'. The main content area has tabs for 'Webhooks' and 'Tokens'. Under 'Tokens', there is a table with one row for a token named 'zero-to-hero' with permission 'Developer' and created '1 week ago'. A button '+ Add API token' is visible. A 'What's new' sidebar on the left lists 'Sanity Create Content Mapping, Visual Editing,'.



## Configured .env File

Added the Sanity Project ID and token to the .env file

```
$ .env.local x
$ .env.local
1 NEXT_PUBLIC_SANITY_PROJECT_ID="bx84cc3f"
2 NEXT_PUBLIC_SANITY_DATASET="production"
3 SANITY_API_TOKEN="skyL8q5fja7WLtR7mmKNYDFVL1oScCJ6gyllKeqwuh5YfWETdCrQ6gOzr9Ld9rmTNhZpivKTh08Z5ngNS7D86NlIzzHFxJOfXq59fUJH6C48WQOXQVPcuoELm
4 |
```

## Updated package-lock.json

Included the script file importSanityData.mjs in the package-lock.json to manage dependencies effectively.

```
1 {
2   "name": "warisha",
3   "version": "0.1.0",
4   "private": true,
5   ▷ Debug
6   "scripts": {
7     "dev": "next dev --turbopack",
8     "build": "next build",
9     "start": "next start",
10    "lint": "next lint",
11    "import-data": "node scripts/importSanityData.mjs"
12  },
13  "dependencies": {
14    "@fortawesome/free-brands-svg-icons": "^6.7.2",
15    "@fortawesome/free-solid-svg-icons": "^6.7.2",
16    "@fortawesome/react-fontawesome": "^0.2.2",
17    "@heroicons/react": "^2.2.0",
18    "@sanity/client": "^6.27.1",
19    "@sanity/image-url": "^1.1.0"
```



## Finally: API Integration and Data Migration

After all the setup and development steps, the final and crucial phase was integrating the API and migrating data successfully:

1. **API Integration** ↴ Connected the backend with Sanity using the @sanity/client library. ↴ Designed endpoints to fetch and sync data between the application and Sanity CMS.
2. **Data Migration** ↴ Imported data from external sources (e.g., a custom API) into Sanity CMS. ↴ Ensured all fields, including images and structured content, were correctly mapped and uploaded.
3. **Verification** ↴ Verified that the data was successfully stored and displayed as intended in both the Sanity Studio and the frontend application.

With these final steps, the API integration and data migration were successfully completed. The project is now ready to deliver seamless functionality and an enriched user experience.

The screenshot shows the Sanity Studio interface. On the left, there's a sidebar with a 'Content' section and a 'Product' category selected. Below it is a 'What's new' box. The main area has a 'Product' title and a search bar. A list of products includes 'Cozy Sofa' (selected and highlighted in blue), 'High Quality Modern Sofa', 'Nautilus Lounge Chair', 'Rapson Thirty-Nine Sofa', 'Hans Wegner Style Three-Legged...', 'Stylish Armchair', 'Pink Lounge Chair', 'Armchair Chair Set', and 'Chair Wibe'. On the right, a detailed view of the 'Cozy Sofa' product is shown. It has a title 'Cozy Sofa', a 'Name' field containing 'Cozy Sofa', and an 'Image' field displaying a photograph of a white sofa in a minimalist interior. There are also 'Published 5 min. ago' and 'Publish' buttons at the bottom.