

API Integration Report :E-commerce

A report document :

- ❖ *API Integration Process.*
- ❖ *Adjustment made to Schema .*
- ❖ *Migration steps and tools used.*

Screenshots of:

- ❖ *API calls.*
- ❖ *Data successfully displayed in the frontend.*
- ❖ *Sanity CMS field.*
- ❖ *Code snippets for API integration and migration scripts.*

```
Microsoft Windows [Version 10.0.22621.4317]
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D:\hackathone-02 deploy>code .

D:\hackathone-02 deploy>npm create sanity@latest
✓ You are logged in as seeratafzal731@gmail.com using Google
✓ Fetching existing projects

? Create a new project or select an existing one Create new project
? Your project name: day3
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
? 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
```

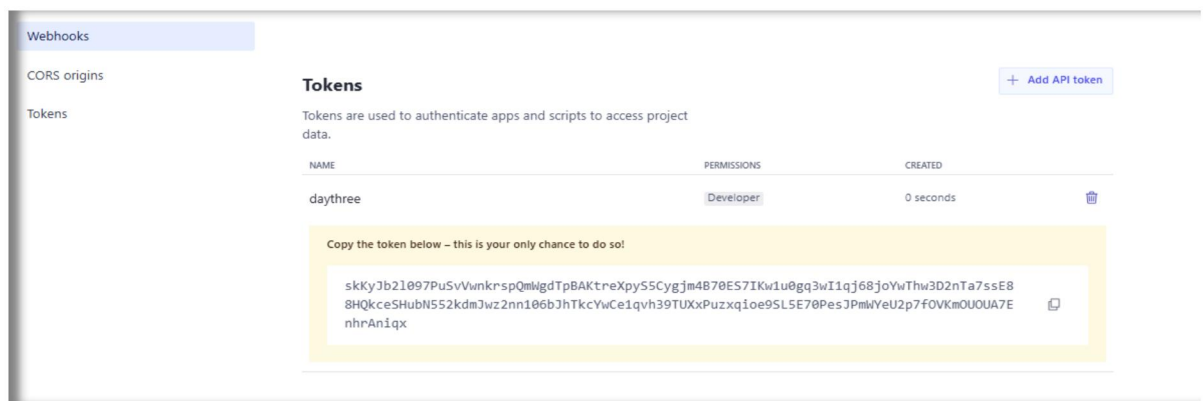
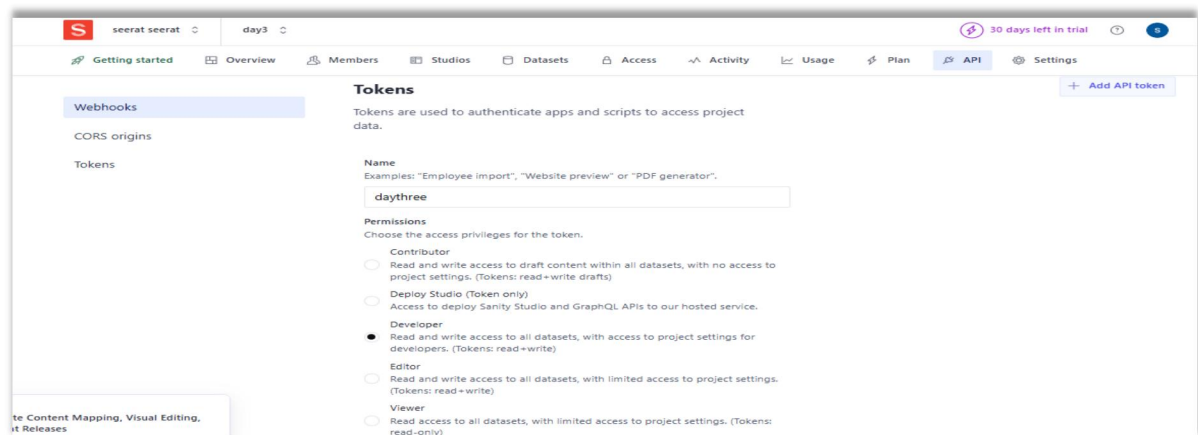
```
added 913 packages, and audited 1285 packages in 6m
245 packages are looking for funding
  run `npm fund` for details
1 moderate severity vulnerability
To address all issues, run:
  npm audit fix --force
Run `npm audit` for details.
added 16 packages, and audited 1301 packages in 35s
245 packages are looking for funding
  run `npm fund` for details
1 moderate severity vulnerability
To address all issues, run:
  npm audit fix --force
Run `npm audit` for details.
Success! Your Sanity configuration files has been added to this project
D:\hackathone-02 deploy>
```

Sanity

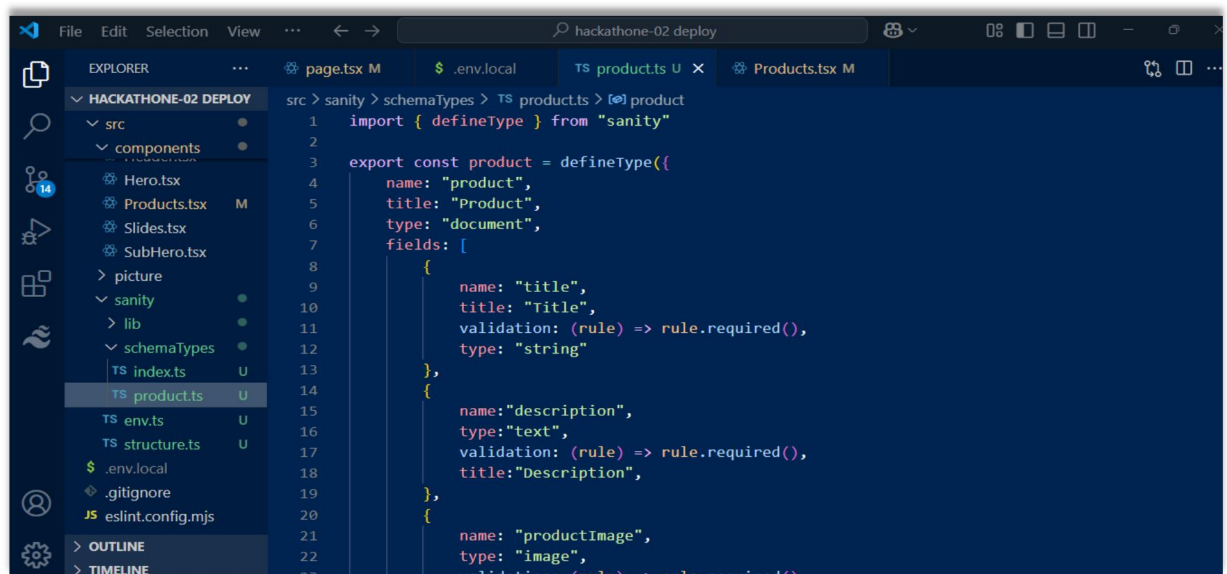
The screenshot shows the Sanity dashboard for a project named 'day3'. The user 'seerat seerat' is logged in. The project status is 'Active' and the plan is 'Growth Trial'. The dashboard includes a navigation bar with options like 'Getting started', 'Overview', 'Members', 'Studios', 'Datasets', 'Access', 'Activity', 'Usage', 'Plan', 'API', and 'Settings'. The 'CURRENT PLAN' section shows the 'Growth Trial' plan, which is free during the trial period. Below this, the 'AVAILABLE PLANS' section lists three options: 'Free' (\$0 per month), 'Growth' (\$15 per seat / month), and 'Enterprise' (custom pricing). A 'What's new' sidebar on the left mentions 'Sanity Create Content Mapping, Visual Editing, and Content Releases'.

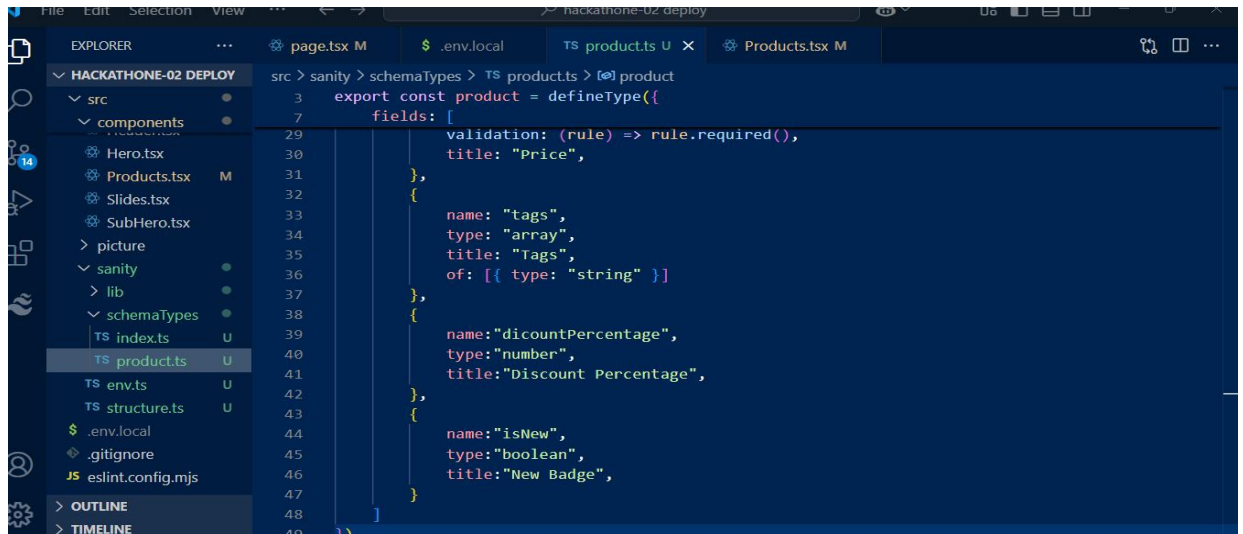
The screenshot shows the 'API' settings page in the Sanity dashboard. The 'Webhooks' tab is selected. The 'CORS origins' section lists hosts that can connect to the project API. A table shows one origin: 'http://localhost:3333' with 'Allowed' credentials and a creation time of '29 minutes'. The 'Tokens' section explains that tokens are used to authenticate apps and scripts to access project data. A 'What's new' sidebar on the left mentions 'Sanity Create Content Mapping, Visual Editing, and Content Releases'.

ORIGIN	CREDENTIALS	CREATED
http://localhost:3333	Allowed	29 minutes



Sanity CMS Schema Design:

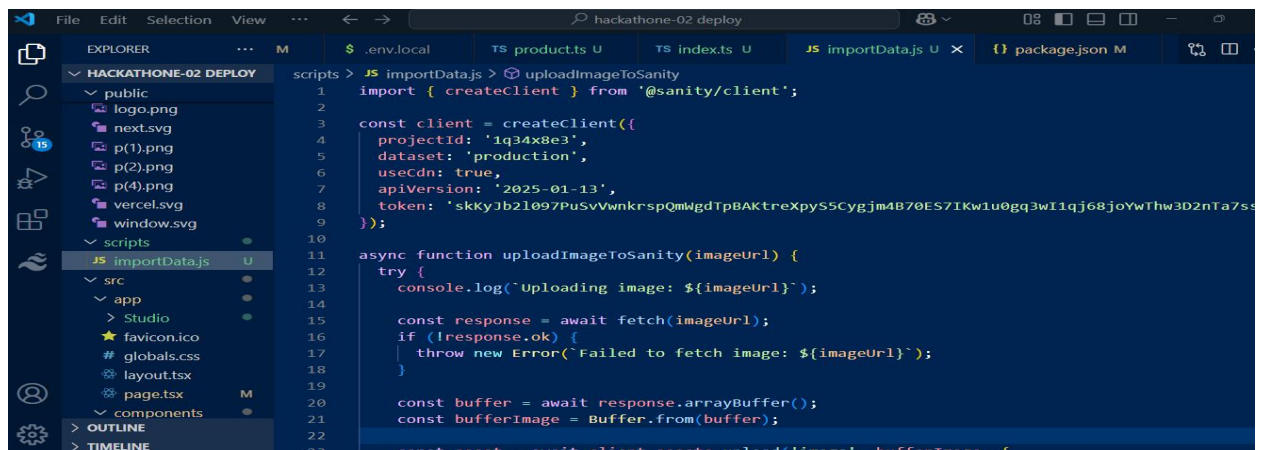




The screenshot shows the VS Code editor with the file explorer on the left displaying the project structure. The main editor window shows the `product.ts` file in the `src > sanity > schemaTypes > TS products.ts` path. The code defines a `product` schema with the following fields:

```
export const product = defineType({
  fields: [
    {
      type: "string",
      title: "Price",
    },
    {
      name: "tags",
      type: "array",
      title: "Tags",
      of: [{ type: "string" }]
    },
    {
      name: "discountPercentage",
      type: "number",
      title: "Discount Percentage",
    },
    {
      name: "isNew",
      type: "boolean",
      title: "New Badge",
    }
  ]
})
```

ImportData.mjs



The screenshot shows the VS Code editor with the file explorer on the left. The main editor window shows the `importData.js` file in the `scripts > JS importData.js` path. The code defines a `uploadImageToSanity` function that uploads an image to Sanity:

```
import { createClient } from '@sanity/client';

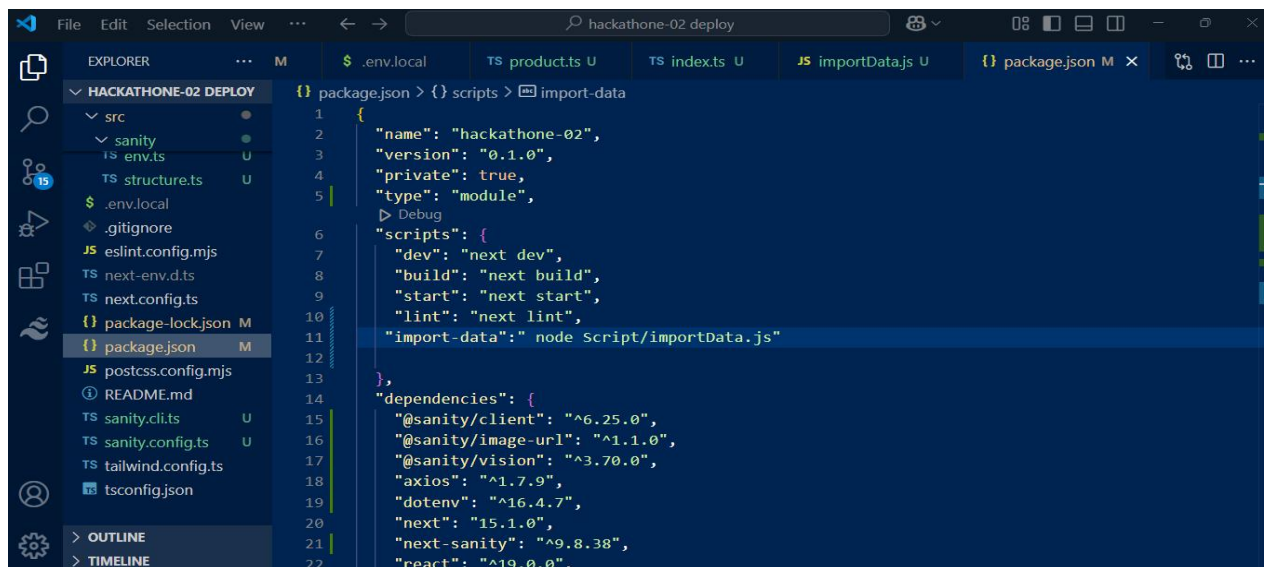
const client = createClient({
  projectId: '1q34x8e3',
  dataset: 'production',
  useCdn: true,
  apiVersion: '2025-01-13',
  token: 'skKy3b2l097PusVvwnkrspQmWgdTpBAKtreXpyS5Cygm4B70ES7IKw1u0gq3wI1qj68joYwThw3D2nTa7ss'
});

async function uploadImageToSanity(imageUrl) {
  try {
    console.log(`Uploading image: ${imageUrl}`);

    const response = await fetch(imageUrl);
    if (!response.ok) {
      throw new Error(`Failed to fetch image: ${imageUrl}`);
    }

    const buffer = await response.arrayBuffer();
    const bufferImage = Buffer.from(buffer);

    const asset = await client.assets.upload('image', bufferImage, {
```



The screenshot shows the VS Code editor with the file explorer on the left. The main editor window shows the `package.json` file in the `scripts > import-data` path. The code defines the project metadata and dependencies:

```
{
  "name": "hackathone-02",
  "version": "0.1.0",
  "private": true,
  "type": "module",
  "scripts": {
    "dev": "next dev",
    "build": "next build",
    "start": "next start",
    "lint": "next lint",
    "import-data": "node Script/importData.js"
  },
  "dependencies": {
    "@sanity/client": "^6.25.0",
    "@sanity/image-url": "^1.1.0",
    "@sanity/vision": "^3.70.0",
    "axios": "^1.7.9",
    "dotenv": "^16.4.7",
    "next": "15.1.0",
    "next-sanity": "^9.8.38",
    "react": "^19.0.0",
```

I got a error