Documentation Title: "DAY 3"- API Integration Report [Muhammad Ahsan]

What to Submit 0:

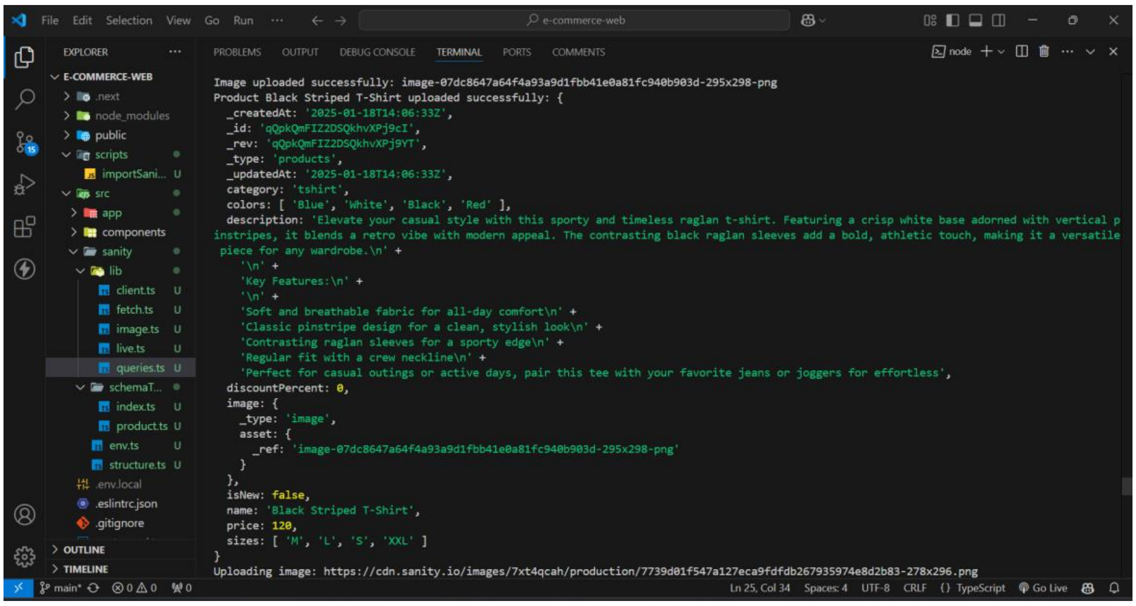
A report documenting

- **API Integrating Process**
- **Adjustments made to schemas**
- **Migration steps and tool used.**

Screenshots of:

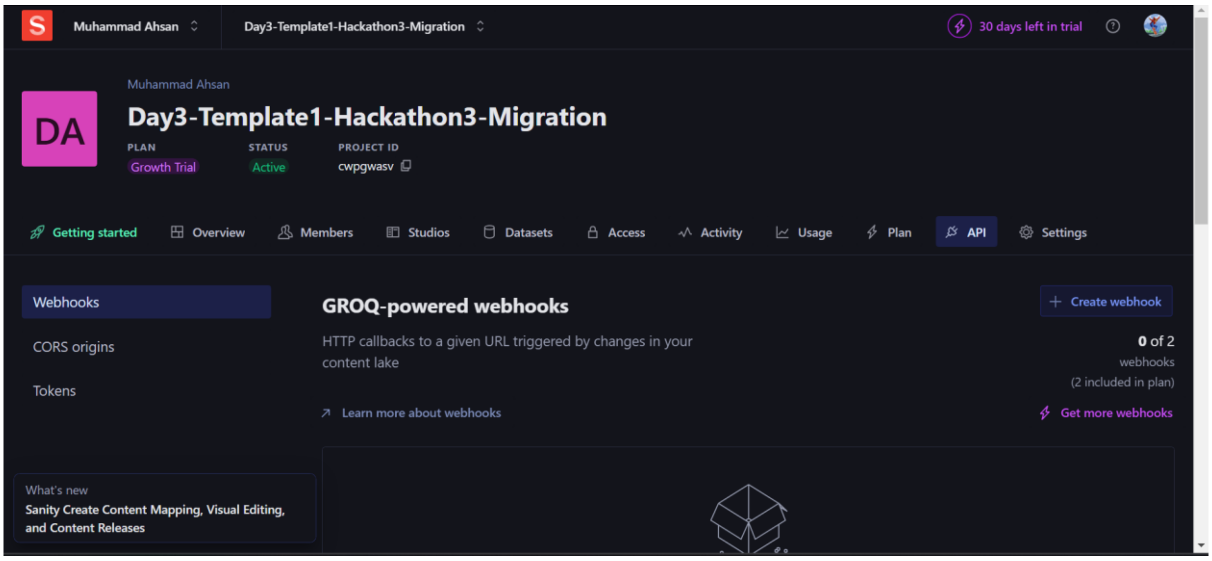
- API Calls
- Data Successfully Displayed in Front-end
- Populated Sanity CMS Fields
- Code Snippet for API Integration and migration scripts

Importing the Data in Sanity



```
Image uploaded successfully: image-07dc8647a64f4a93a9d1fbb41e0a81fc940b903d-295x298-png
Product Black Striped T-Shirt uploaded successfully: {
  _createdAt: '2025-01-18T14:06:33Z',
  _id: 'qQpkQmFIZ2DSQkhvXPj9cI',
  _rev: 'qQpkQmFIZ2DSQkhvXPj9YT',
  _type: 'products',
  _updatedAt: '2025-01-18T14:06:33Z',
  category: 'tshirt',
  colors: [ 'Blue', 'White', 'Black', 'Red' ],
  description: 'Elevate your casual style with this sporty and timeless raglan t-shirt. Featuring a crisp white base adorned with vertical p
instripes, it blends a retro vibe with modern appeal. The contrasting black raglan sleeves add a bold, athletic touch, making it a versatile
 piece for any wardrobe.\n' +
    '\n' +
    'Key Features:\n' +
    '\n' +
    'Soft and breathable fabric for all-day comfort\n' +
    'Classic pinstripe design for a clean, stylish look\n' +
    'Contrasting raglan sleeves for a sporty edge\n' +
    'Regular fit with a crew neckline\n' +
    'Perfect for casual outings or active days, pair this tee with your favorite jeans or joggers for effortless',
  discountPercent: 0,
  image: {
    _type: 'image',
    asset: {
      _ref: 'image-07dc8647a64f4a93a9d1fbb41e0a81fc940b903d-295x298-png'
    }
  },
  isNew: false,
  name: 'Black Striped T-Shirt',
  price: 120,
  sizes: [ 'M', 'L', 'S', 'XXL' ]
}
Uploading image: https://cdn.sanity.io/images/7xt4qcah/production/7739d01f547a127eca9fdfdb267935974e8d2b83-278x296.png
```

SANITY



Muhammad Ahsan

Day3-Template1-Hackathon3-Migration

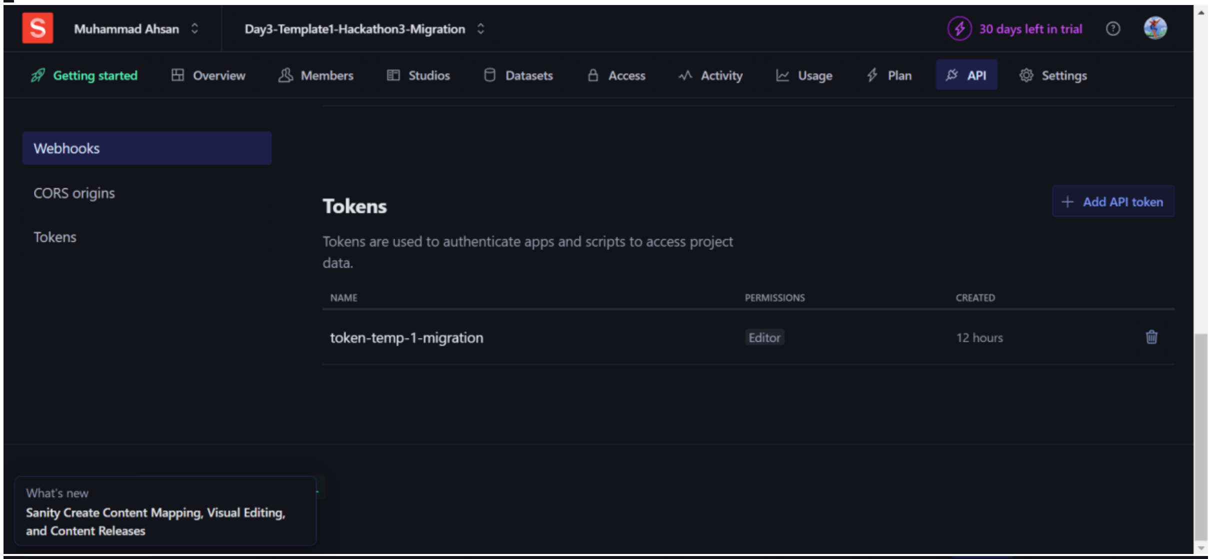
PLAN Growth Trial | STATUS Active | PROJECT ID cwpgwasv

GROQ-powered webhooks

HTTP callbacks to a given URL triggered by changes in your content lake

0 of 2 webhooks (2 included in plan)

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

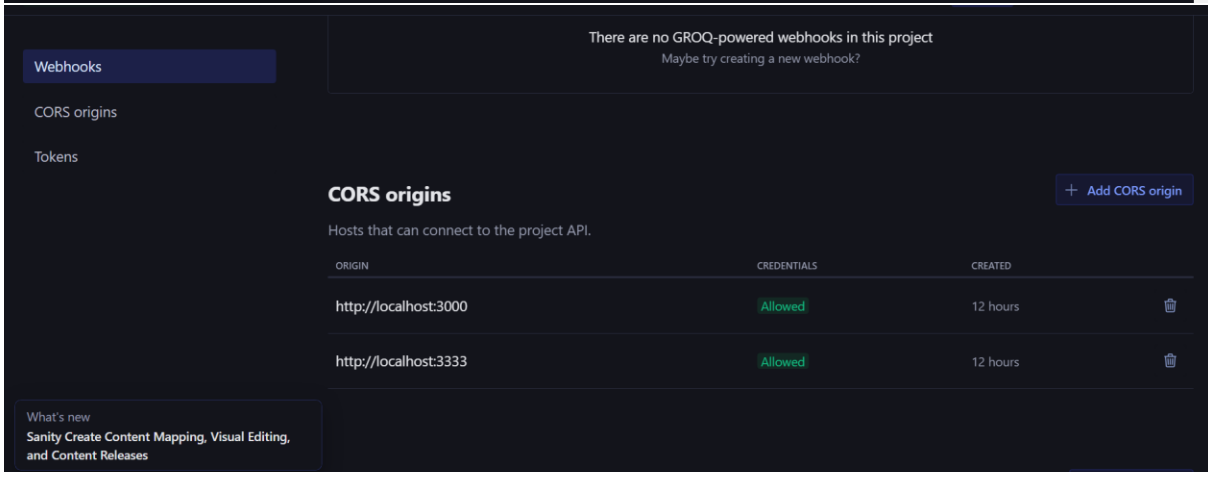


Tokens

Tokens are used to authenticate apps and scripts to access project data.

NAME	PERMISSIONS	CREATED
token-temp-1-migration	Editor	12 hours

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



There are no GROQ-powered webhooks in this project
Maybe try creating a new webhook?

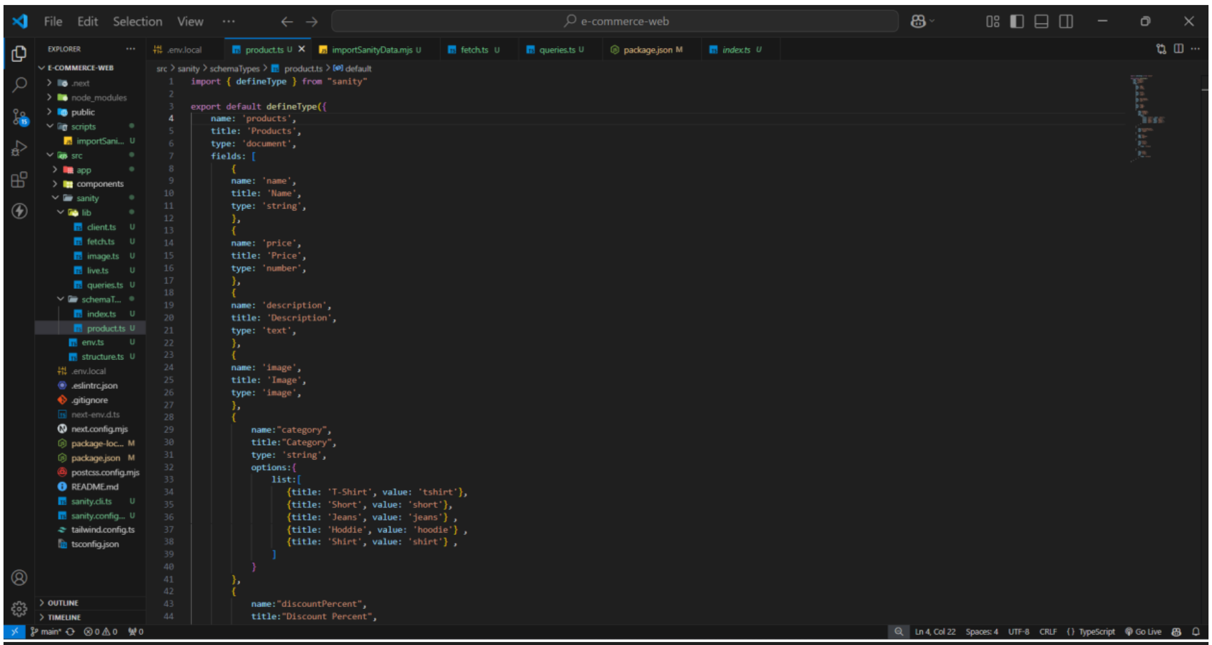
CORS origins

Hosts that can connect to the project API.

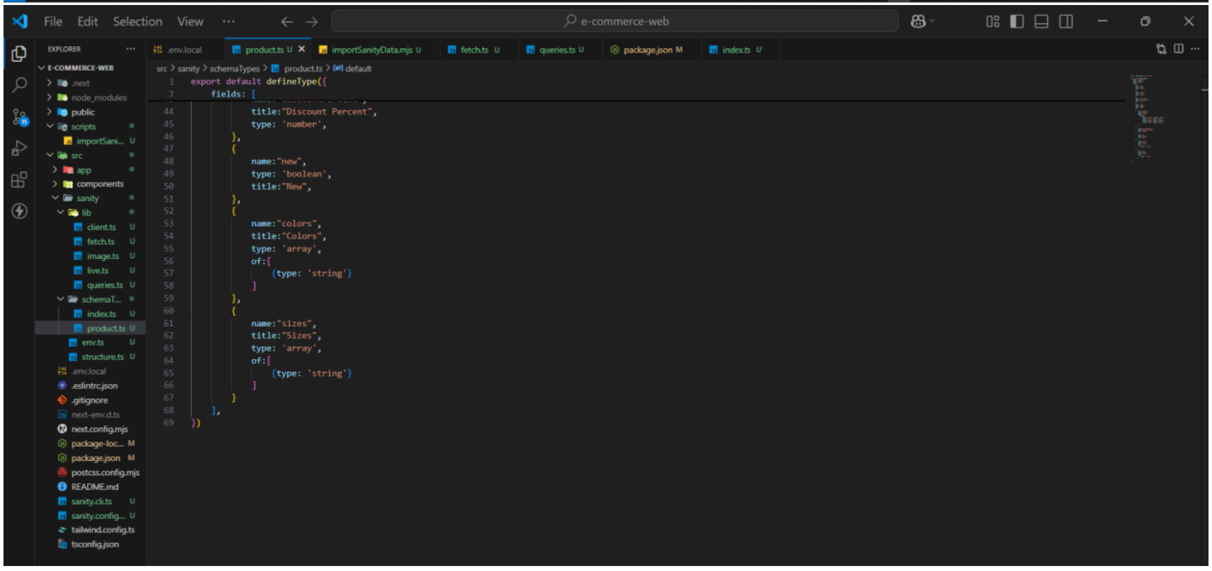
ORIGIN	CREDENTIALS	CREATED
http://localhost:3000	Allowed	12 hours
http://localhost:3333	Allowed	12 hours

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

Schemas ==>> Product

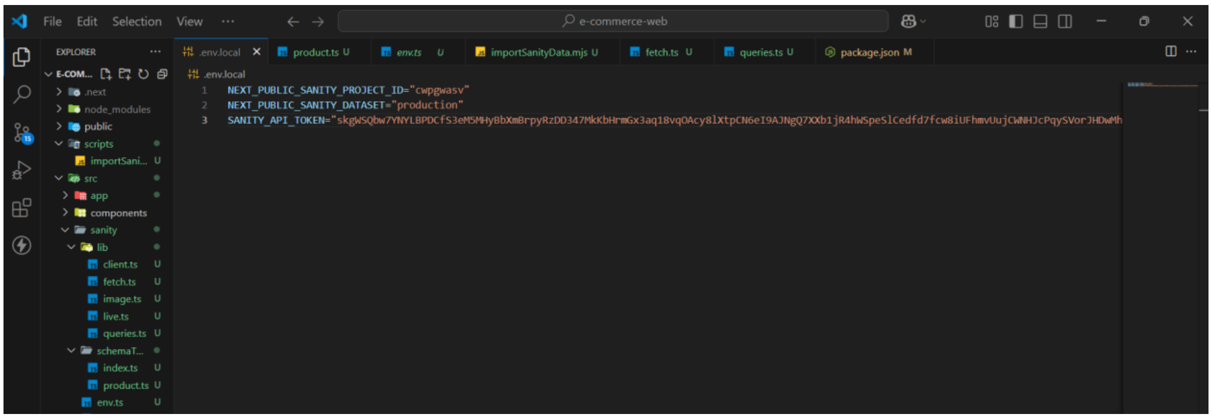


```ts
import { defineType } from "sanity"

export default defineType({
    name: 'products',
    title: 'Products',
    type: 'document',
    fields: [
        {
        name: 'name',
        title: 'Name',
        type: 'string',
        },
        {
        name: 'price',
        title: 'Price',
        type: 'number',
        },
        {
        name: 'description',
        title: 'Description',
        type: 'text',
        },
        {
        name: 'image',
        title: 'Image',
        type: 'image',
        },
        {
            name:"category",
            title:"Category",
            type: 'string',
            options:{
                list:[
                   {title: 'T-Shirt', value: 'tshirt'},
                   {title: 'Short', value: 'short'},
                   {title: 'Jeans', value: 'jeans'} ,
                   {title: 'Hoddie', value: 'hoodie'} ,
                   {title: 'Shirt', value: 'shirt'} ,
                ]
            }
        },
        {
            name:"discountPercent",
            title:"Discount Percent",
```



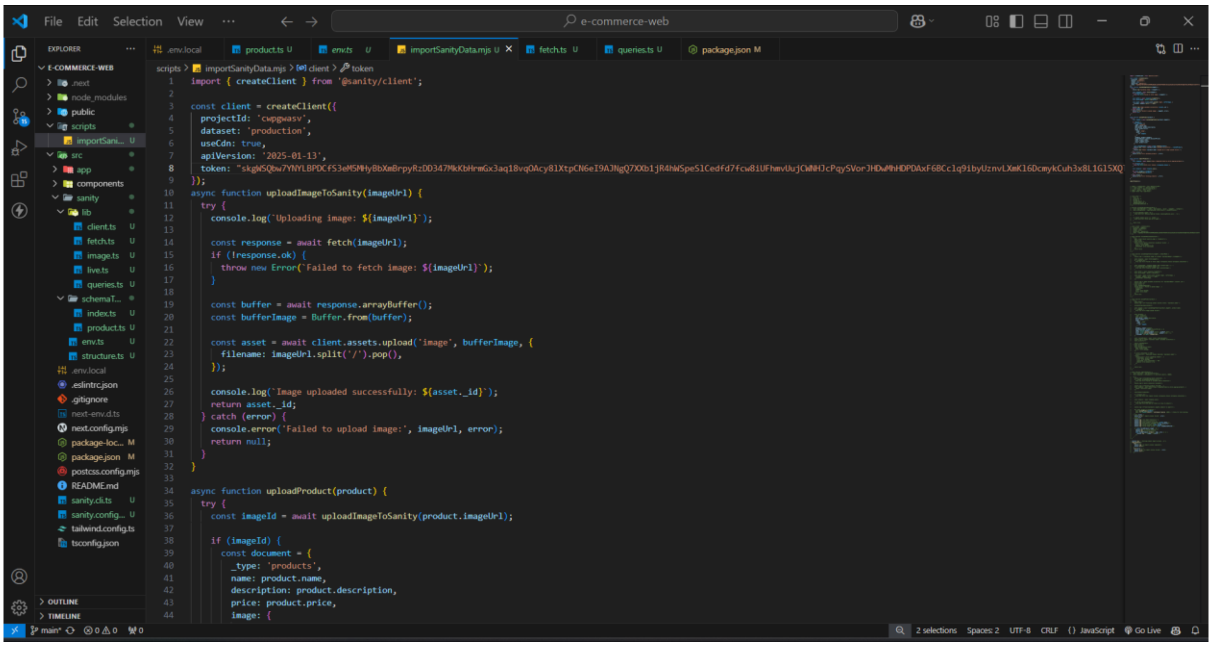
```ts
export default defineType({
    fields: [
            title:"Discount Percent",
            type: 'number',
        },
        {
            name:"new",
            type: 'boolean',
            title:"New",
        },
        {
            name:"colors",
            title:"Colors",
            type: 'array',
            of:[
                {type: 'string'}
            ]
        },
        {
            name:"sizes",
            title:"Sizes",
            type: 'array',
            of:[
                {type: 'string'}
            ]
        }
    ],
})
```

. ENV.LOCAL

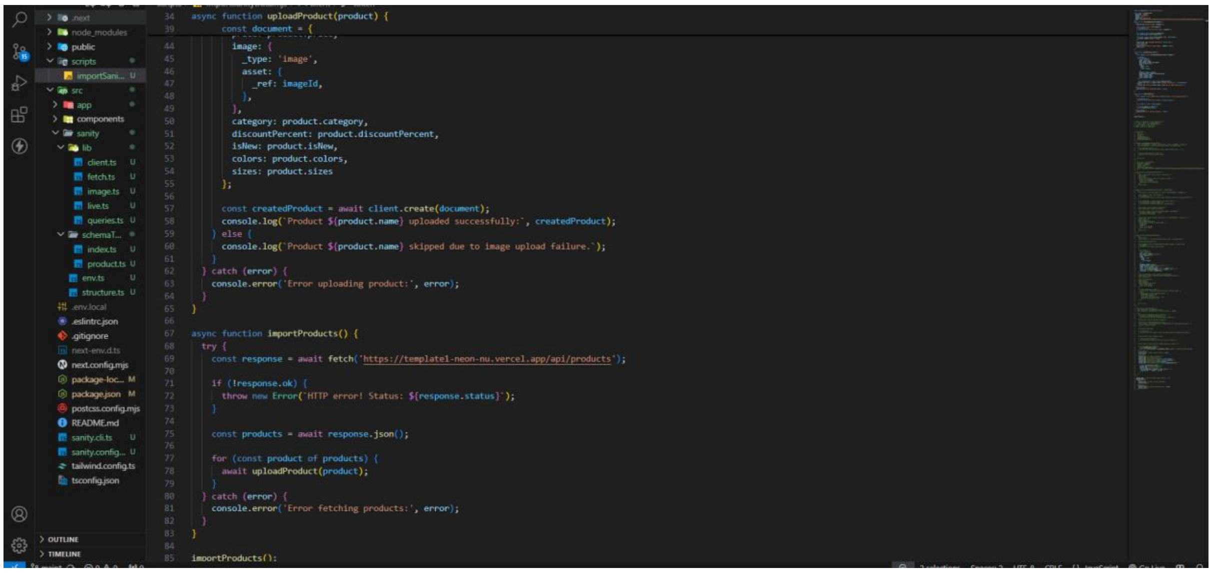


```
NEXT_PUBLIC_SANITY_PROJECT_ID="cwpgwasv"
NEXT_PUBLIC_SANITY_DATASET="production"
SANITY_API_TOKEN="skgWSQbw7YNYLBPDCfS3eM5MHyBbXmBrpyRzDD347MkKbHrmGx3aq18vqOAcy8lXtpCN6eI9AJNgQ7XXb1jR4hWSpeSlCedfd7fcw8iUFhmvUujCWNHJcPqySVorJHDwMh
```

Import Script Data In Root File

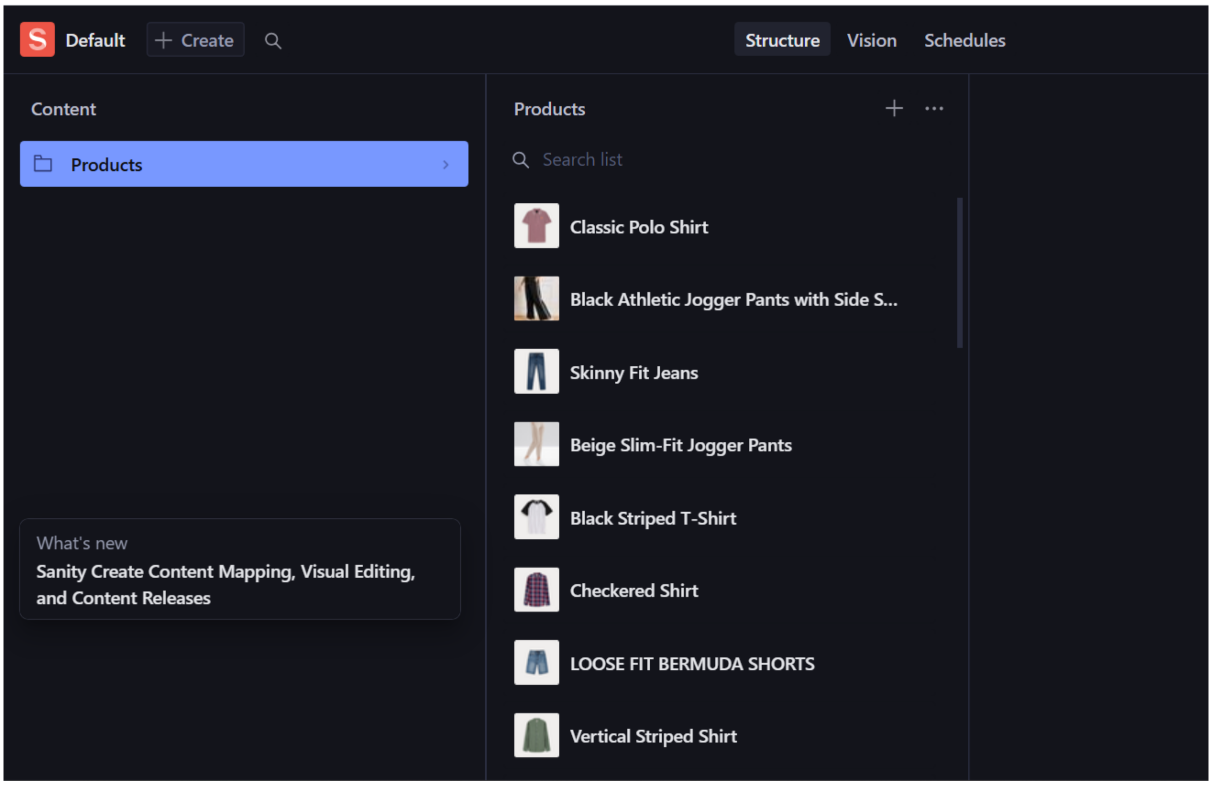


```javascript
import { createClient } from '@sanity/client';

const client = createClient({
  projectId: 'cwpgwasv',
  dataset: 'production',
  useCdn: true,
  apiVersion: '2025-01-13',
  token: "skgWSQbw7YNYLBPDCfS3eM5MHyBbXmBrpyRzDD347MkKbHrmGx3aq18vqOAcy8lXtpCN6eI9AJNgQ7XXb1jR4hWSpeSlCedfd7fcw8iUFhmvUujCWNHJcPqySVorJHDwMhHDPDAxF6BCclq9ibyUznvLXmKl6DcmykCuh3x8L1Gl5XQ
});
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, {
      filename: imageUrl.split('/').pop(),
    });

    console.log(`Image uploaded successfully: ${asset._id}`);
    return asset._id;
  } catch (error) {
    console.error('Failed to upload image:', imageUrl, error);
    return null;
  }
}

async function uploadProduct(product) {
  try {
    const imageId = await uploadImageToSanity(product.imageUrl);

    if (imageId) {
      const document = {
        _type: 'products',
        name: product.name,
        description: product.description,
        price: product.price,
        image: {
```



```javascript
async function uploadProduct(product) {
      const document = {
        image: {
          _type: 'image',
          asset: {
            _ref: imageId,
          },
        },
        category: product.category,
        discountPercent: product.discountPercent,
        isNew: product.isNew,
        colors: product.colors,
        sizes: product.sizes
      };

      const createdProduct = await client.create(document);
      console.log(`Product ${product.name} uploaded successfully:`, createdProduct);
    } else {
      console.log(`Product ${product.name} skipped due to image upload failure.`);
    }
  } catch (error) {
    console.error('Error uploading product:', error);
  }
}

async function importProducts() {
  try {
    const response = await fetch('https://template1-neon-nu.vercel.app/api/products');

    if (!response.ok) {
      throw new Error(`HTTP error! Status: ${response.status}`);
    }

    const products = await response.json();

    for (const product of products) {
      await uploadProduct(product);
    }
  } catch (error) {
    console.error('Error fetching products:', error);
  }
}

importProducts();
```

Sanity Data


Default + Create

Structure Vision Schedules

Content

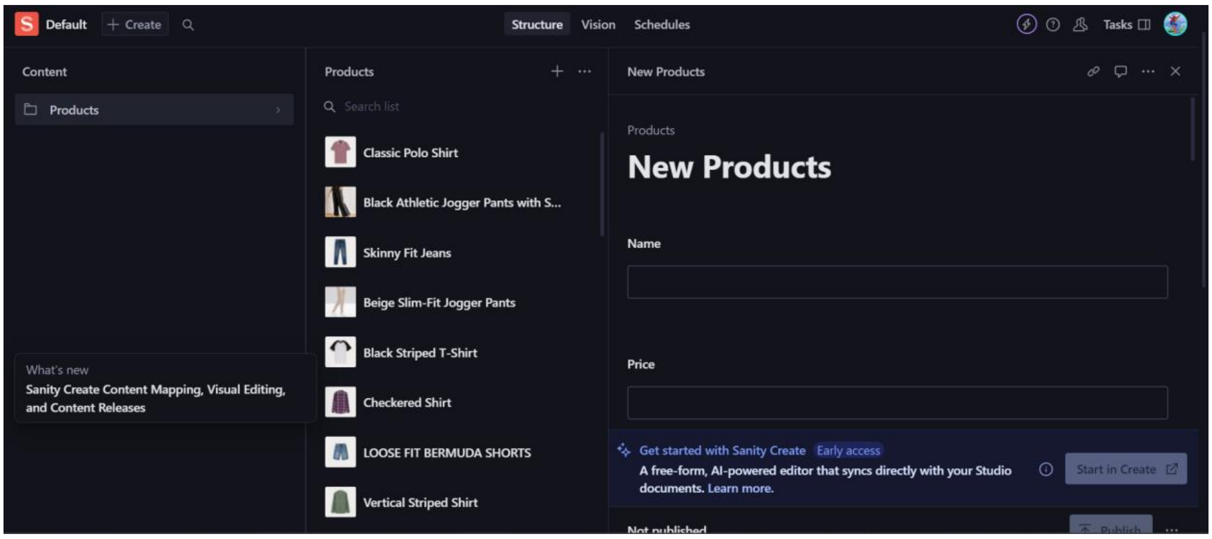
Products

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

Products

Search list

Classic Polo Shirt
Black Athletic Jogger Pants with Side S...
Skinny Fit Jeans
Beige Slim-Fit Jogger Pants
Black Striped T-Shirt
Checkered Shirt
LOOSE FIT BERMUDA SHORTS
Vertical Striped Shirt


Default + Create

Structure Vision Schedules

Tasks

Content

Products

What's new
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Products

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Classic Polo Shirt
Black Athletic Jogger Pants with S...
Skinny Fit Jeans
Beige Slim-Fit Jogger Pants
Black Striped T-Shirt
Checkered Shirt
LOOSE FIT BERMUDA SHORTS
Vertical Striped Shirt

New Products

Products

New Products

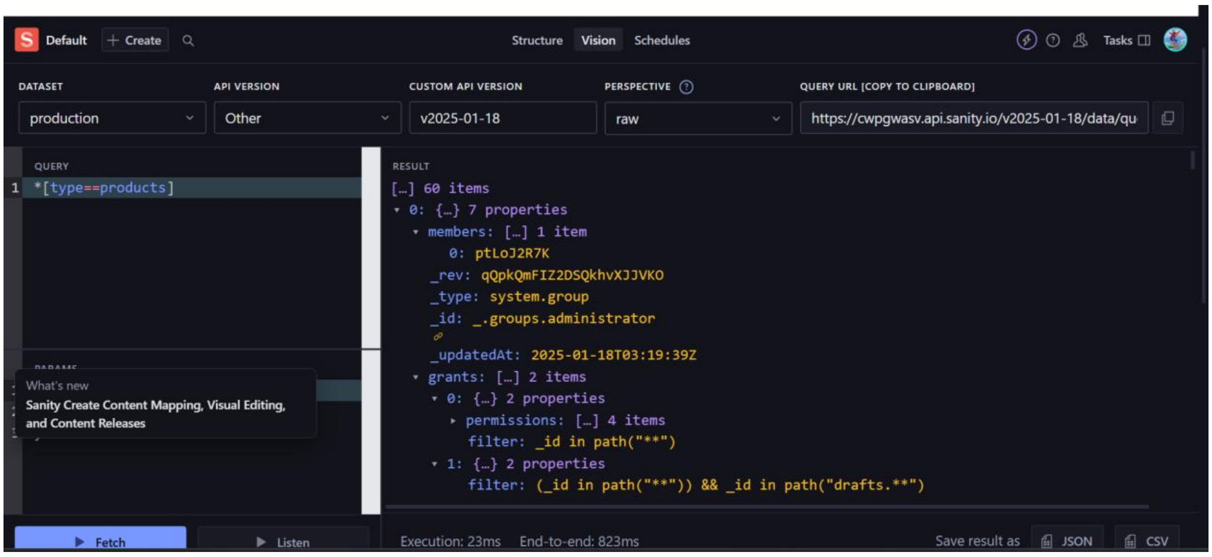
Name

Price

Get started with Sanity Create Early access
A free-form, AI-powered editor that syncs directly with your Studio documents. Learn more.
Start in Create

Not published
Publish

All Products Data:



DATASET: production
API VERSION: Other
CUSTOM API VERSION: v2025-01-18
PERSPECTIVE: raw
QUERY URL [COPY TO CLIPBOARD]: https://cwpgwasv.api.sanity.io/v2025-01-18/data/qu

QUERY

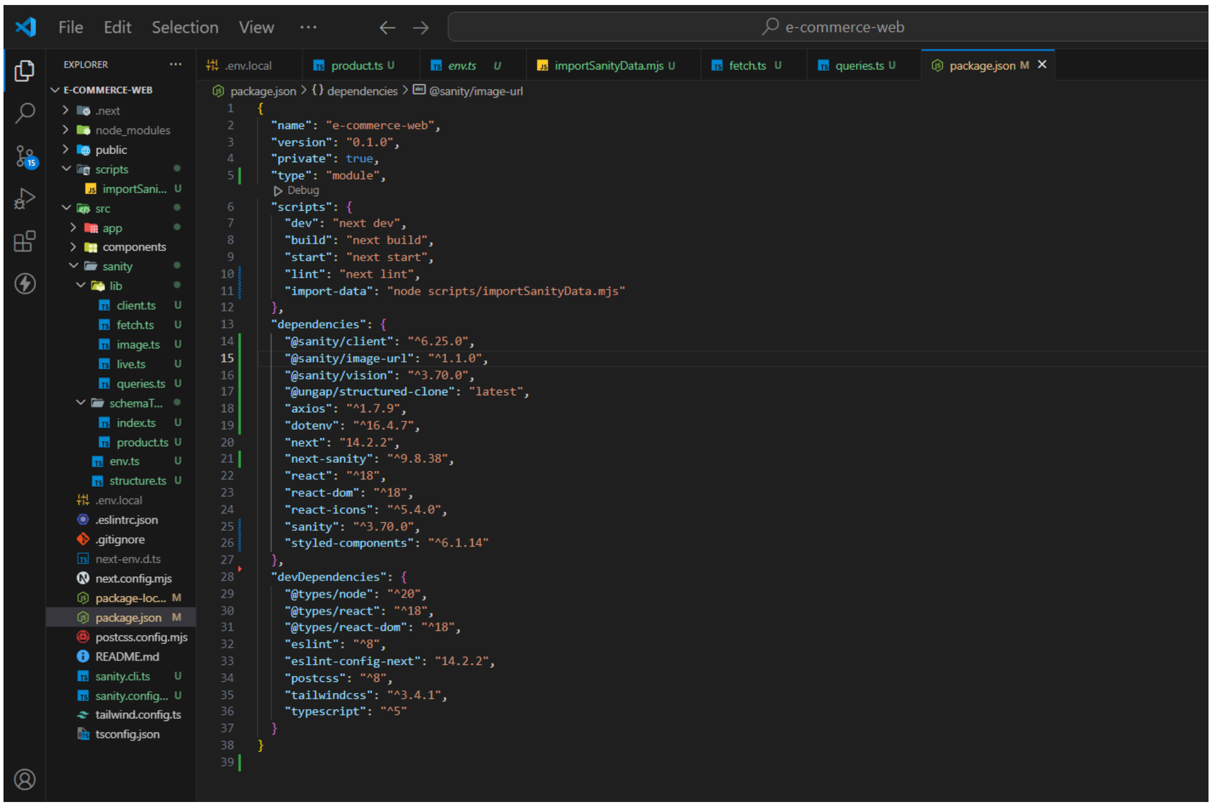
```
*[type==products]
```

RESULT

```
[…] 60 items
▾ 0: {…} 7 properties
  ▾ members: […] 1 item
      0: ptLoJ2R7K
    _rev: qQpkQmFIZ2DSQkhvXJJVKO
    _type: system.group
    _id: _.groups.administrator
    _updatedAt: 2025-01-18T03:19:39Z
  ▾ grants: […] 2 items
    ▾ 0: {…} 2 properties
      ▸ permissions: […] 4 items
        filter: _id in path("**")
    ▾ 1: {…} 2 properties
        filter: (_id in path("**")) && _id in path("drafts.**")
```

Execution: 23ms   End-to-end: 823ms

Package. Json



```
{
  "name": "e-commerce-web",
  "version": "0.1.0",
  "private": true,
  "type": "module",
  "scripts": {
    "dev": "next dev",
    "build": "next build",
    "start": "next start",
    "lint": "next lint",
    "import-data": "node scripts/importSanityData.mjs"
  },
  "dependencies": {
    "@sanity/client": "^6.25.0",
    "@sanity/image-url": "^1.1.0",
    "@sanity/vision": "^3.70.0",
    "@ungap/structured-clone": "latest",
    "axios": "^1.7.9",
    "dotenv": "^16.4.7",
    "next": "14.2.2",
    "next-sanity": "^9.8.38",
    "react": "^18",
    "react-dom": "^18",
    "react-icons": "^5.4.0",
    "sanity": "^3.70.0",
    "styled-components": "^6.1.14"
  },
  "devDependencies": {
    "@types/node": "^20",
    "@types/react": "^18",
    "@types/react-dom": "^18",
    "eslint": "^8",
    "eslint-config-next": "14.2.2",
    "postcss": "^8",
    "tailwindcss": "^3.4.1",
    "typescript": "^5"
  }
}
```