

Hackathon Day Three - API Fetching

Installing Sanity in my Project.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS ⌂ node + ⌄ ... ⌈ ⌉

GET /Product-DetailPage 200 in 553ms
⚠ Fast Refresh had to perform a full reload due to a runtime error.
Use the `defaultValue` or `value` props on <select> instead of setting `selected` on <option>.
GET /Product-DetailPage 200 in 123ms
GET /fonts/IntegralCF-Regular.woff2 404 in 50ms
GET /fonts/IntegralCF-Regular.woff 404 in 45ms
GET /favicon.ico 200 in 17ms
GET / 200 in 79ms
Terminate batch job (Y/N)?
```

^C

```
PS C:\Users\Ali BALOCH\Desktop\Next Js\Assignments\hackathon> npm create sanity@latest
Need to install the following packages:
  create-sanity@latest
Ok to proceed? (y) y
[#####.....] / idealTree:decompress: sill fetch manifest pkg-dir@^3.0.0
```

I Created a New Sanity Project

The screenshot shows a software interface for managing a trial plan. At the top, there's a header with a user profile (Muhammad Ali), the organization name ('hackathondaythree'), and a notification bar indicating '30 days left in trial'. Below the header, the organization's logo ('HA') and name ('hackathondaythree') are displayed. The interface includes sections for 'CURRENT PLAN' (showing a 'Growth Trial' plan with '\$0' cost) and 'AVAILABLE PLANS' (listing 'Free', 'Growth', and 'Enterprise' plans). Each plan box contains a brief description, a price, and a call-to-action button ('Upgrade now' or 'Contact sales'). A sidebar on the left lists recent activity: 'What's new', 'Content Mapping', 'Visual Editing', and 'Content Releases'.

Muhammad Ali

hackathondaythree

30 days left in trial

HA

hackathondaythree

PLAN STATUS PROJECT ID

Growth Trial Active w13f8xw2

Getting started Overview Members Studios Datasets Access Activity Usage Plan API Settings

CURRENT PLAN

Growth Trial

During the trial you have access to even more features, all for free. Upgrade before the trial ends to keep access to all features.

\$0

▶ Plan details **Upgrade now**

AVAILABLE PLANS

Free

For individuals experimenting or shipping smaller projects.

\$0 per month

You will automatically be downgraded to Free after the trial ends.

Growth

For teams with scaling projects and increasing collaboration needs.

\$15 per seat / month

Enterprise

For organizations with complex security, support, and performance needs.

Custom pricing

Contact sales

What's new

Content Mapping, Visual Editing, and Content Releases

Created a API token and pasted in .env.local file

The screenshot shows the Sanity Studio interface for managing API tokens. A new token named "daythreeapi" is being created. The "Permissions" section is expanded, showing various roles and their access levels. The "Developer" role is selected, which includes "Read and write access to all datasets, with access to project settings for developers." Other roles like "Contributor" and "Editor" also have specific access details. At the bottom, there are "Save" and "Cancel" buttons.

The screenshot shows the VS Code interface with the terminal tab active. The terminal window displays the contents of the .env.local file, which includes environment variables for the project's public sanity dataset and an API token. Below the terminal, a message from the IDE indicates that the Sanity configuration files have been successfully added to the project. The Explorer sidebar on the left shows the project structure, including the .env.local file.

Then Copy The Products SchemaTypes And Create **products.ts**

Then pasted the provided schema in template one. And I Imported this file on index.ts file.

A screenshot of a web browser displaying a GitHub file viewer. The URL is github.com/developer-hammad-rehman/template1/blob/main/src/sanity/schemaTypes/products.ts. The file content is as follows:

```
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',
    },
  ],
})
```

A screenshot of the Visual Studio Code (VS Code) interface. The file `products.ts` is open in the editor. The code is identical to the one shown in the browser screenshot. The Explorer sidebar shows the project structure, including files like `env.local`, `index.ts`, and `env.ts`. The status bar at the bottom indicates the file is 11 lines long, 69 loc, and 1.51 KB.

The screenshot shows the VS Code interface with the following details:

- EXPLORER** sidebar: Shows the project structure under the "HACKATHON" folder, including ".next", "node_modules", "public", "src" (with "app" and "sanity" subfolders), "schemaTypes" (with "index.ts", "products.ts", "envs.ts", and "structure.ts"), and various configuration files like ".env.local", ".gitignore", "eslint.config.mjs", "next-env.d.ts", "next.config.ts", "package-lock.json", "package.json", "postcss.config.mjs", "README.md", "sanity.cli.ts", "sanity.config.ts", and "tailwind.config.ts".
- CODE EDITOR**: The active tab is "products.ts", displaying the following code:

```
src > sanity > schemaTypes > index.ts > schema > types
1 import { type SchemaTypeDefinition } from 'sanity'
2 import products from './products'
3
4 export const schema: { types: SchemaTypeDefinition[] } = {
5   types: [products],
6 }
7
```
- STATUS BAR**: Shows "Success! Your Sanity configuration files has been added to this project".

Then I created a folder of scripts inside root directory of my project and added the imported the importData.js file code.

The screenshot shows the VS Code interface with the following details:

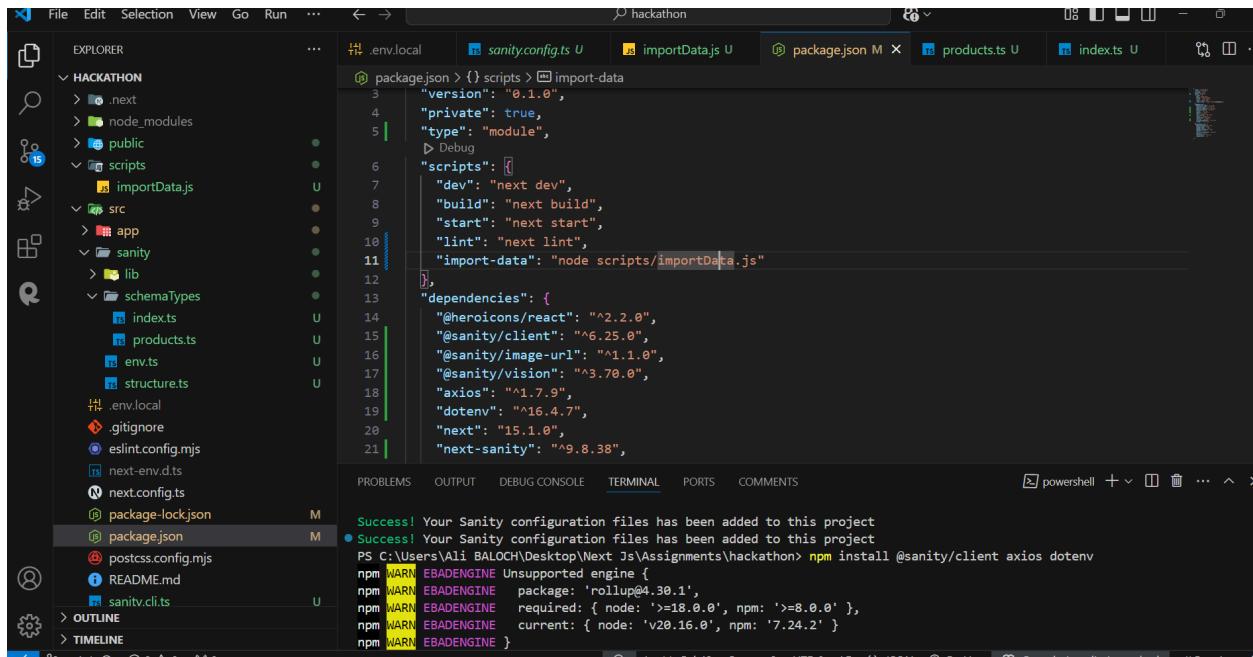
- EXPLORER** sidebar: Shows the project structure under the "HACKATHON" folder, including ".next", "node_modules", "public", "scripts" (with "importData.js" selected), "src" (with "app" and "sanity" subfolders), "schemaTypes" (with "index.ts", "products.ts", "envs.ts", and "structure.ts"), and various configuration files like ".env.local", ".gitignore", "eslint.config.mjs", "next-env.d.ts", "next.config.ts", "package-lock.json", "package.json", "postcss.config.mjs", "README.md", "sanity.cli.ts", and "sanity.config.ts".
- CODE EDITOR**: The active tab is "importData.js", displaying the following code:

```
scripts > importData.js > importProducts
1 import { createClient } from '@sanity/client';
2
3 const client = createClient({
4   projectId: 'your-project-id',
5   dataset: 'production',
6   useCdn: true,
7   apiVersion: '2025-01-13',
8   token: 'your-auth-token',
9 });
10
11 async function uploadImageToSanity(imageUrl) {
12   try {
13     console.log(`Uploading image: ${imageUrl}`);
14
15     const response = await fetch(imageUrl);
16     if (!response.ok) {
17       throw new Error(`Failed to fetch image: ${imageUrl}`);
18     }
19
20     const buffer = await response.arrayBuffer();
21     const bufferImage = Buffer.from(buffer);
22
23     const asset = await client.assets.upload('image', bufferImage, {
24       filename: imageUrl.split('/').pop(),
25     });
26
27     console.log(`Image uploaded successfully: ${asset._id}`);
28     return asset._id;
29   } catch (error) {
30     console.error(`Failed to upload image: ${imageUrl}, error: ${error}`);
31   }
32 }
```
- STATUS BAR**: Shows "Success! Your Sanity configuration files has been added to this project".

Installed npm install @sanity/client axios dotenv And set "type": "module" and

```
"import-data": "node scripts/importData.js"
```

Inside package.json file.



```
package.json > {} scripts > import-data
  "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/importData.js"
  ],
  "dependencies": {
    "@heroicons/react": "^2.2.0",
    "@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",
  }
}

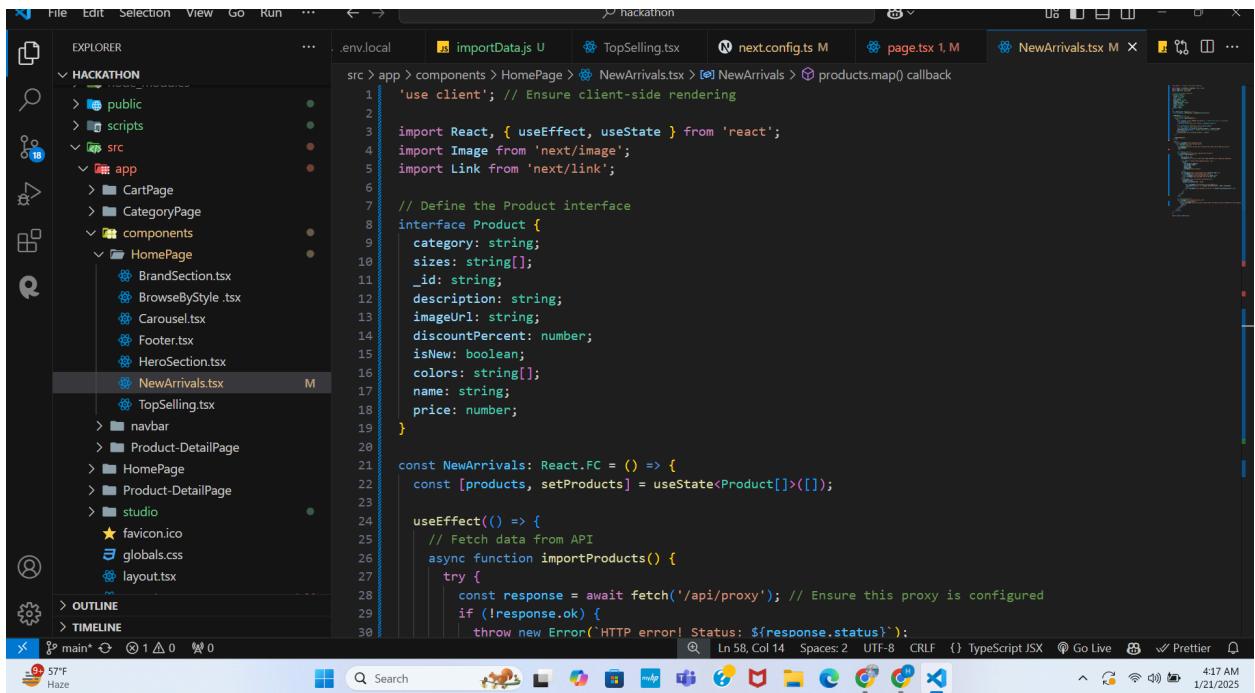
Success! Your Sanity configuration files has been added to this project
● Success! Your Sanity configuration files has been added to this project
PS C:\Users\Ali BALOCH\Desktop\Next Js\Assignments\hackathon> npm install @sanity/client axios dotenv
npm WARN EBADENGINE Unsupported engine {
npm   WARN EBADENGINE   package: 'rollup@4.30.1',
npm   WARN EBADENGINE   required: { node: '>=18.0.0', npm: '>=8.0.0' },
npm   WARN EBADENGINE   current: { node: 'v20.16.0', npm: '7.24.2' }
npm WARN EBADENGINE }
```

And When I run this command `npm run import-data` All the APIs Data uploaded on sanity.

The screenshot displays a developer's workspace with two main windows:

- VS Code Terminal:** Shows the command `node` running, followed by a log message about an image upload to Sanity. The terminal also contains a JSON object representing a product named "Classic Polo Shirt".
- Browser:** Shows a product detail page for "Classic Polo Shirt" on a platform like Sanity Studio. The page includes fields for Name (Classic Polo Shirt), Price (180), and Description (Upgrade your wardrobe with this timeless classic polo shirt, perfect for any occasion. Crafted from premium-quality fabric, it offers a soft, breathable, and comfortable fit that lasts all day. Featuring a stylish collar, button placket, and short sleeves, this versatile polo blends elegance with a casual touch.).

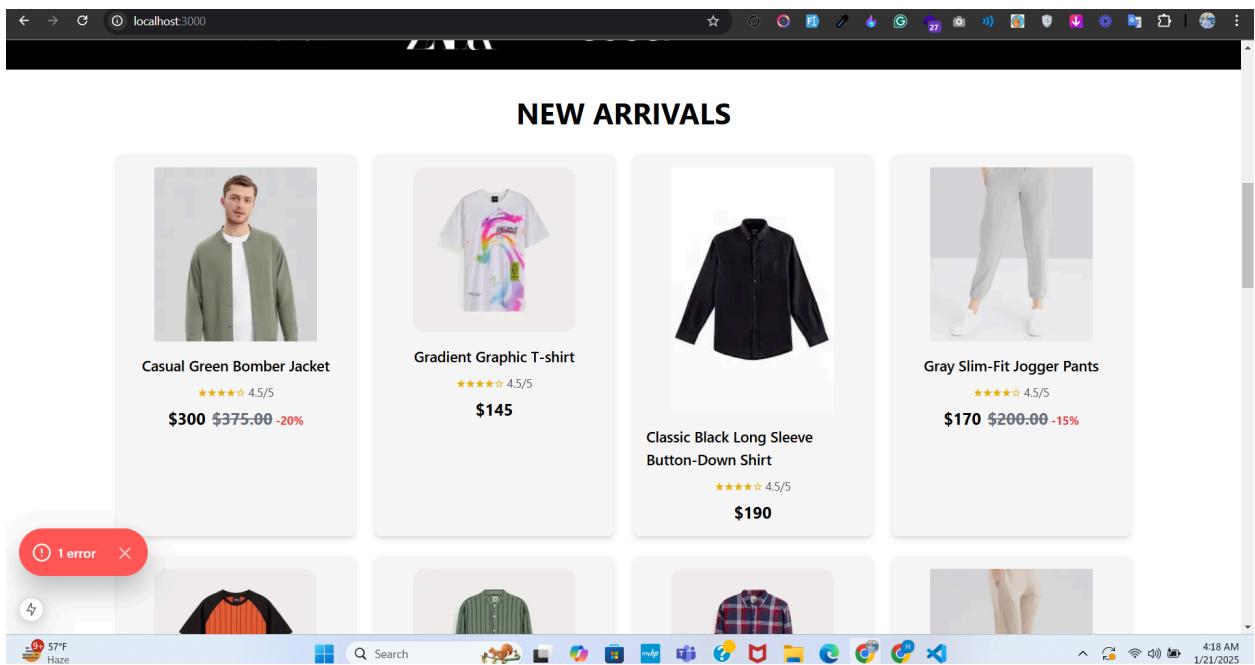
And I fetched the data in my frontend, with all the details like product name, price, isNew new to show if false hide them.



```

src > app > components > HomePage > NewArrivals.tsx > NewArrivals > products.map() callback
1  'use client'; // Ensure client-side rendering
2
3  import React, { useEffect, useState } from 'react';
4  import Image from 'next/image';
5  import Link from 'next/link';
6
7  // Define the Product interface
8  interface Product {
9    category: string;
10   sizes: string[];
11   _id: string;
12   description: string;
13   imageUrl: string;
14   discountPercent: number;
15   isNew: boolean;
16   colors: string[];
17   name: string;
18   price: number;
19 }
20
21 const NewArrivals: React.FC = () => {
22   const [products, setProducts] = useState<Product[]>([]);
23
24   useEffect(() => {
25     // Fetch data from API
26     async function importProducts() {
27       try {
28         const response = await fetch('/api/proxy'); // Ensure this proxy is configured
29         if (!response.ok) {
30           throw new Error(`HTTP error! Status: ${response.status}`);
31         }
32       } catch (error) {
33         console.error(error);
34       }
35     }
36     importProducts();
37   }, []);
38
39   return (
40     <div>
41       <h2>New Arrivals</h2>
42       <ul>
43         {products.map((product) => (
44           <li>
45             <img alt={product.imageUrl} />
46             <div>
47               <h3>{product.name}</h3>
48               <small>★★★★★ 4.5/5</small>
49               <small>${product.price}</small>
50               <small>${product.discountPercent}</small>
51             </div>
52           </li>
53         ))}
54       </ul>
55     </div>
56   );
57 }

```



The I created a dynamic route to get a specific product on ProductsDetail Page with all the APIs data.

```

    height={700}
    className="object-cover w-full h-full"
  
```

```

    /* Right - Product Details */
<div className="flex-1">
  /* Title */
<h1 className="text-3xl font-bold mb-4">{product.name}</h1>

  /* Rating */
<div className="flex items-center text-yellow-500 mb-6">
  <span className="text-lg">{'*'.repeat(Math.floor(rating))}</span>
  <span className="ml-2 text-gray-500 text-sm">>(rating)/5</span>
</div>

  /* Price */
<div className="mb-6">
  <span className="text-3xl font-bold text-black">${discountedPrice || product.price}</span>
  <span className="text-gray-400 line-through ml-4">${product.price}</span>
  <span className="text-red-500 font-medium ml-2">{-product.discountPercent}%</span>
</div>

  /* Description */

```

localhost:3000/Product-DetailPage/ff560b5d-46c0-4c23-903d-f5030b7d04d1

SHOP.CO

Shop On Sale New Arrivals Brands

Search for products...

Classic Polo Shirt

★★★★ 4/5

\$180

Classic Polo Shirt Upgrade your wardrobe with this timeless classic polo shirt, perfect for any occasion. Crafted from premium-quality fabric, it offers a soft, breathable, and comfortable fit that lasts all day. Featuring a stylish collar, button placket, and short sleeves, this versatile polo blends elegance with a casual touch. Key features: Made with durable and lightweight material Available in a variety of colors and sizes Easy to pair with jeans, chinos, or shorts for a polished look Ideal for work, casual outings, or weekend wear Stay effortlessly stylish with this must-have polo shirt!

Select Colors

Choose Size

L XXL S M

- 1 + Add to Cart

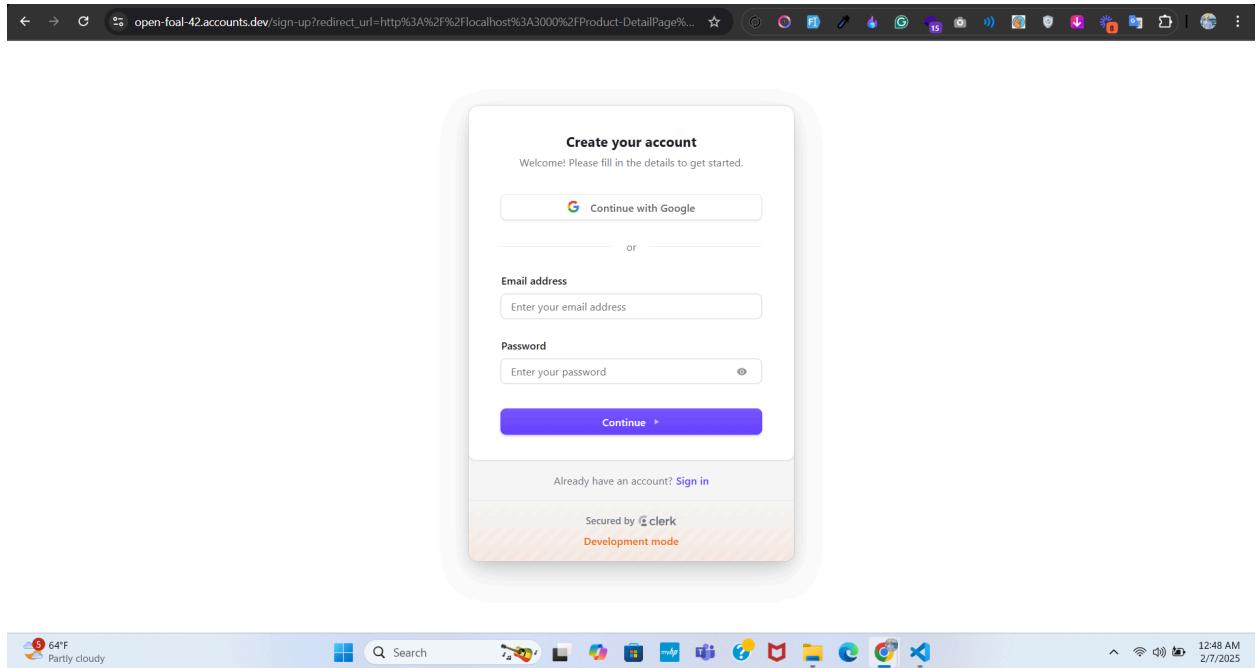
5 errors

Products are added to cart after user Logged In

The screenshot shows a shopping cart page from a website named SHOP.CO. The cart contains two items: "Skinny Fit Jeans" in yellow and "Skinny Fit Jeans" in blue. Both items are listed at \$240. The cart summary shows a subtotal of \$1494.00, no discount, and no delivery fee. The total is \$1494.00. There is a section for adding a promo code and buttons for "Apply" and "Go to Checkout". The browser status bar indicates it's running on localhost:3000/CartPage.

The screenshot shows a product detail page for a "Gradient Graphic T-shirt". The page includes a large image of the t-shirt, which has a colorful, abstract graphic design. Below the image, there is a message: "Please log in first to add products to the cart." The product title is "Gradient Graphic T-shirt", it has a 4/5 star rating, and is priced at \$145. A detailed product description follows: "Add a bold and artistic touch to your wardrobe with this unique graphic t-shirt. Featuring an eye-catching abstract swirl design in vibrant colors, it exudes energy and individuality. The 'Just Walk Forward' slogan adds a motivational element, making this tee perfect for those who love to express themselves. Key Features: High-quality fabric for ultimate comfort and durability Modern, unisex design suitable for casual outings or statement looks Relaxed fit with a classic crew neckline Unique printed details for a one-of-a-kind style Pair it with jeans, joggers, or shorts to create a standout look!" Below the description are sections for "Select Colors" (with four color options shown) and "Choose Size" (with size options L, XL, S, XXL). An "Add to Cart" button is located at the bottom right. The browser status bar indicates it's running on localhost:3000/Product-DetailPage/4857042c-6958-4bda-b214-866994e35052.

User Need to create his Account Via Google or Email Address.



When User Loged In his account the user need to select the products Quantity and must select the color and size as well. Then click on add to cart the pop up show the success message with number of products. And user can increase or decrease the product and the dynamic payments are updating with success message.

localhost:3000/Product-DetailPage/4857042c-6958-4bda-b214-866994e35052

Home > Shop > Gradient Graphic T-shirt

3 product added to cart!

Gradient Graphic T-shirt

★★★★★ 5/5

\$145

Add a bold and artistic touch to your wardrobe with this unique graphic t-shirt. Featuring an eye-catching abstract swirl design in vibrant colors, it exudes energy and individuality. The "Just Walk Forward" slogan adds a motivational element, making this tee perfect for those who love to express themselves. Key Features: High-quality fabric for ultimate comfort and durability. Modern, unisex design suitable for casual outings or statement looks. Relaxed fit with a classic crew neckline. Unique printed details for a one-of-a-kind style. Pair it with jeans, joggers, or shorts to create a standout look!

Select Colors

Choose Size

L XL S XXL

- 3 + Add to Cart

A paw print icon is visible on the right side.

localhost:3000/CartPage

Sign up and get 10% off your first purchase! [Get Started](#)

Product Increased from cart

Shop On Sale New Product Increased from cart

Search for products... 1 @

YOUR CART

	Gradient Graphic T-shirt Size: XL Color: Green \$145	- 8 +	Remove
---	--	--	---------------------

Order Summary

Subtotal	\$1160.00
Discount (0%)	-\$0.00
Delivery Fee	\$0.00
Total	\$1160.00

Add promo code Apply

Go to Checkout →

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