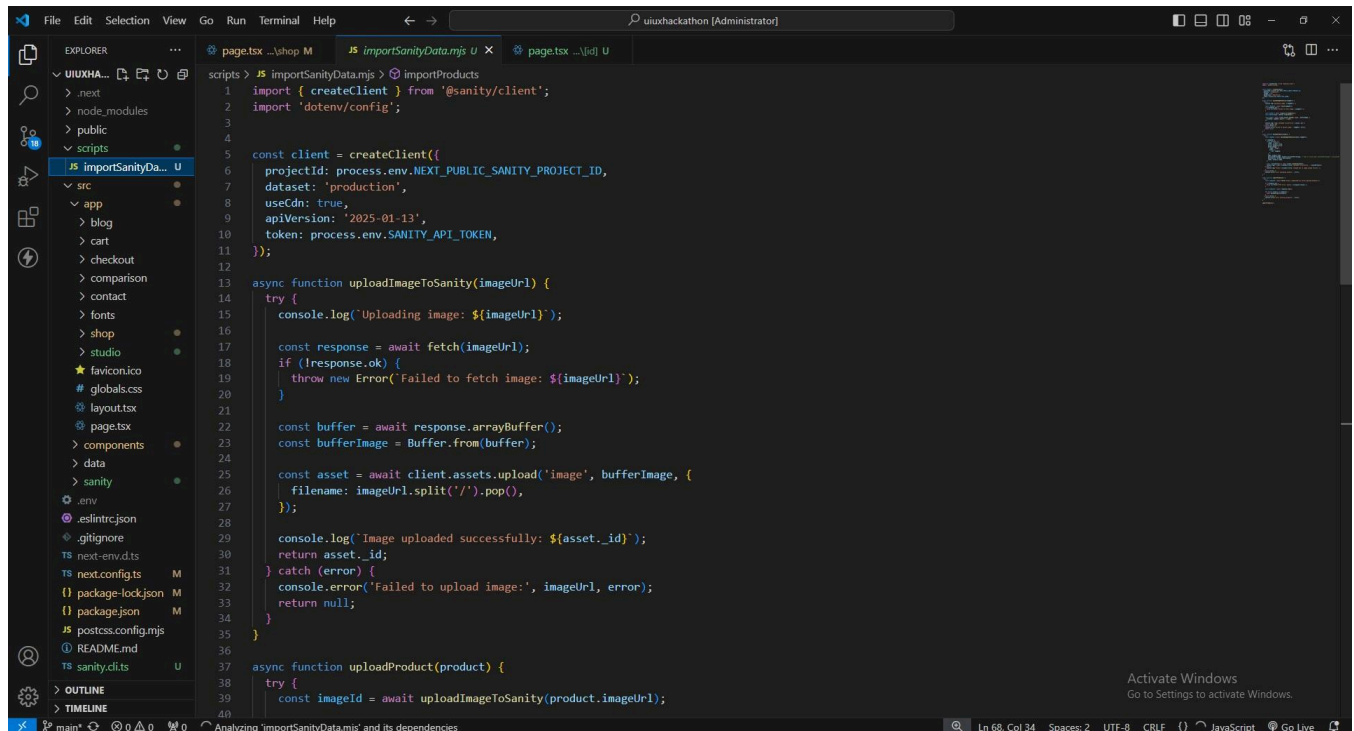


Day 3 - API Integration Report - General E-commerce

The main task for Day 3 was to integrate data from an external API into our platform and display it in the frontend, while storing it in Sanity CMS for easy content management. This was a crucial step in automating content population and ensuring the data was consistently available for display.

1. API Integration Process :

- **API Confirmation** : Reviewed the API provided in the designated template to check and verify the incoming data.
- **Data Migration** : Used the custom script designed to populate data coming from API to Sanity CMS.



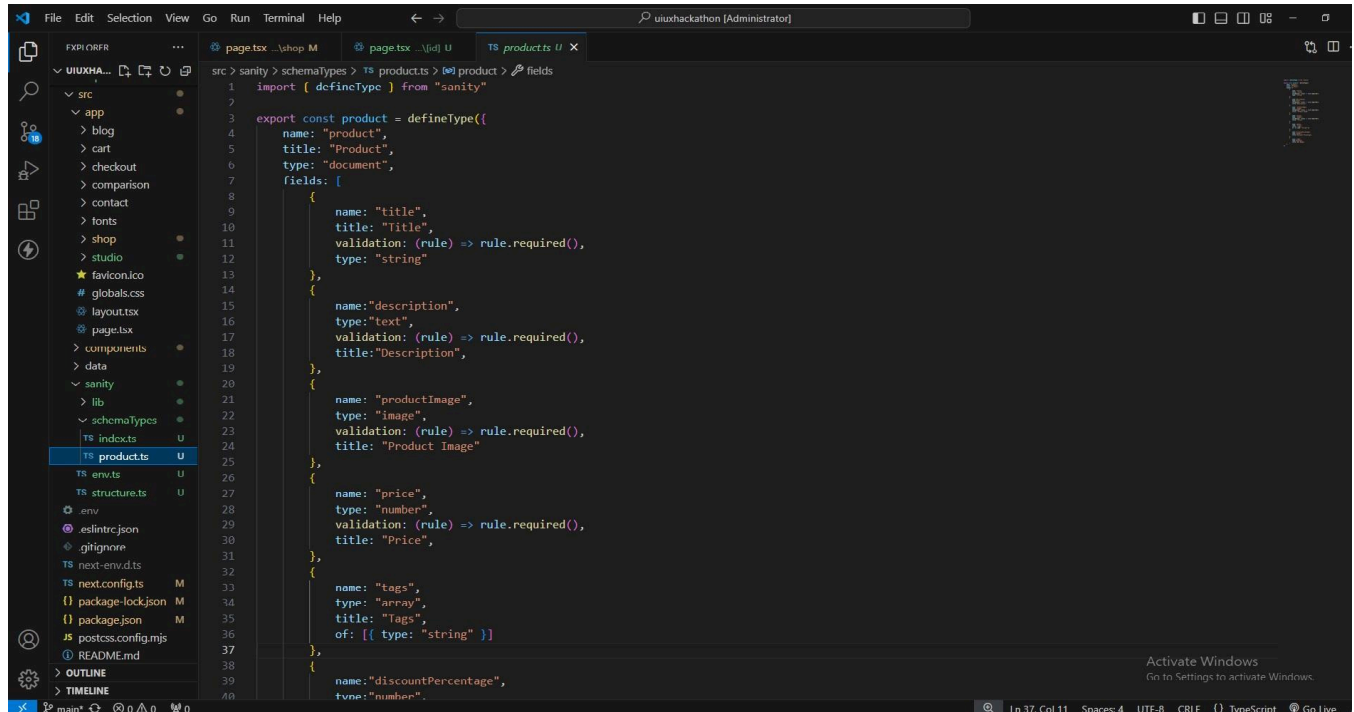
The screenshot shows a Visual Studio Code editor window with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'src', 'app', 'blog', 'cart', 'checkout', 'comparison', 'contact', 'fonts', 'shop', 'studio', 'faviconico', 'globals.css', 'layout.tsx', 'page.tsx', 'components', 'data', 'sanity', '.env', '.eslintrc.json', '.gitignore', 'next-env.d.ts', 'next.config.ts', 'package-lock.json', 'package.json', 'postcss.config.mjs', 'README.md', and 'sanity.d.ts'. The code editor shows a JavaScript file named 'importSanityData.mjs' with the following code:

```
1 import { createClient } from '@sanity/client';
2 import 'dotenv/config';
3
4
5 const client = createClient({
6   projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
7   dataset: 'production',
8   useCdn: true,
9   apiVersion: '2025-01-13',
10   token: process.env.SANITY_API_TOKEN,
11 });
12
13 async function uploadImageToSanity(imageUrl) {
14   try {
15     console.log('Uploading image: ${imageUrl}');
16
17     const response = await fetch(imageUrl);
18     if (!response.ok) {
19       throw new Error('Failed to fetch image: ${imageUrl}');
20     }
21
22     const buffer = await response.arrayBuffer();
23     const bufferImage = Buffer.from(buffer);
24
25     const asset = await client.assets.upload('image', bufferImage, {
26       filename: imageUrl.split('/').pop(),
27     });
28
29     console.log('Image uploaded successfully: ${asset.id}');
30     return asset.id;
31   } catch (error) {
32     console.error('Failed to upload image:', imageUrl, error);
33     return null;
34   }
35 }
36
37 async function uploadProduct(product) {
38   try {
39     const imageId = await uploadImageToSanity(product.imageUrl);
40
41     // ... (rest of the code)
42   } catch (error) {
43     console.error('Failed to upload product:', product, error);
44     return null;
45   }
46 }
```

The status bar at the bottom shows 'Ln 68, Col 34', 'Spaces: 2', 'UTF-8', 'CRLF', and 'JavaScript'.

2. Adjustments Made to Schema :

- Schema was adjusted to match the data coming from API.
- Ensured the data coming from API is compatible with schema.



3. Migration Steps and Tools Used :

I created optimized GROQ queries to pull the newly migrated data from Sanity CMS. These queries were carefully crafted to ensure we only fetched the necessary fields, making the data retrieval process more efficient. Once the data was fetched, I integrated it into the Next.js frontend.

Tools Utilized:

- Sanity CLI.
- Groq Queries.
- Custom script for data migration.

Migration Process:

- Passed project Id and Token to custom script.

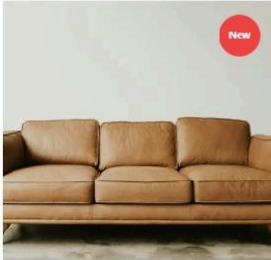
- Ran the command “ npm run -[Key name]- ” to transfer data from API to Sanity CMS.
- Ensured the data before rendering it into front-end.

```

src > app > shop > page.tsx > Shop
13 export default async function Shop() {
15   interface Product {
18     productImage: {
19       asset: {
20         url: string;
21       };
22     };
23     price: number;
24     isNew: boolean;
25   };
26
27   const query = `*_type == "product"[0..16]{
28     title,
29     _id,
30     isNew,
31     productImage {
32       asset -> {
33         url
34       }
35     },
36     price
37   }`;
38
39   const product: Product[] = await client.fetch(query);
40
41   return (
42     <div className="max-w-[1440px] h-auto">
43       <div className="text-center py-24 space-y-4">
44         <h2 className="text-4xl font-semibold">Shop</h2>
45         <div className="text-sm space-x-2">
46           <Link href="" className="font-semibold">Home</Link>
47           <Link href="">Shop</Link>
48         </div>
49       </div>
50     </div>
51   );
52 }
53
54
55

```

Our Products



Amber Haven
\$150



Bold Nest
\$260



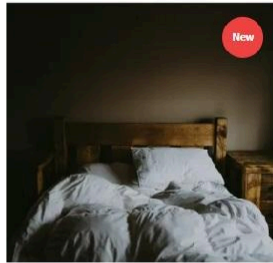
Cloud Haven Chair
\$230



Vase Set
\$150



Marble Ease
\$419



Bed
\$250



Serene Seat
\$350



Sunny Chic
\$400

Show More

Screenshots :



Amber Haven

\$150

★★★★☆ | 5 Customer Review

Step into a world of warmth and tranquility with Amber Haven—a collection inspired by the golden glow and timeless beauty of amber. This sophisticated line combines the soothing hues of amber with elegant, contemporary design to create a space that feels both welcoming and luxurious. Ideal for those seeking a serene escape, Amber Haven infuses your home with a sense of calm, warmth, and understated elegance. Crafted with high-quality materials and a keen eye for detail, each piece in the Amber Haven collection is designed to evoke feelings of comfort and relaxation. The soft, amber-toned accents, paired with sleek lines and refined craftsmanship, bring a touch of nature's beauty into your home. Whether you're furnishing your living room, bedroom, or dining space, Amber Haven creates an in...

size

L XL XS

colors



- 1 +

Add To Cart

+ Compare

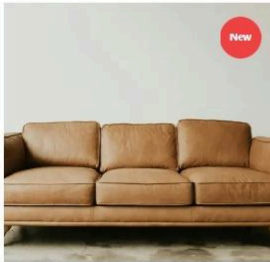
SKU : SS001
Category : Sofas
Tags : amber luxury cozy elegant furniture
Share : [f](#) [in](#) [t](#)

```
File Edit Selection View Go Run Terminal Help
uiuxhackathon [Administrator]

EXPLORER
  UIUXHA...
    > .next
    > node_modules
    > public
    > scripts
      JS importSanityData... U
        > src
          > app
          > blog
          > cart
          > checkout
          > comparison
          > contact
          > fonts
          > shop
          > studio
          > faviconico
          > globals.css
          > layout.tsx
          > page.tsx
          > components
          > data
          > sanity
          > .env
          > .eslintrc.json
          > .gitignore
          > next-env.d.ts
          > next.config.ts
          > package-lock.json
          > package.json
          > postcss.config.mjs
          > README.md
          > OUTLINE
          > TIMELINE
  main

scripts > JS importSanityData.mjs > importProducts
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33     return null;
34   }
35 }
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37 async function uploadProduct(product) {
38   try {
39     const imageId = await uploadImageToSanity(product.imageUrl);
40   }
41 }
```

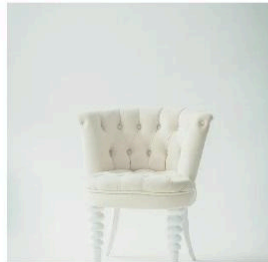
Our Products



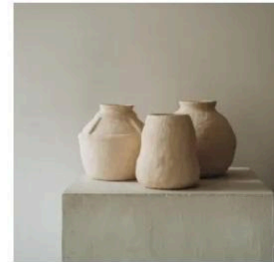
Amber Haven
\$150



Bold Nest
\$260



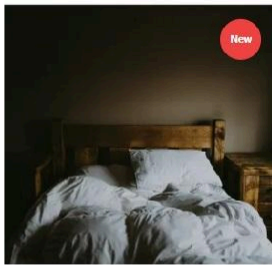
Cloud Haven Chair
\$230



Vase Set
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Marble Ease
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Bed
\$250



Serene Seat
\$350



Sunny Chic
\$400

Show More

```
File Edit Selection View Go Run Terminal Help
uiuxhackathon [Administrator]

EXPLORER
  UIUXHACKATHON
    src
      app
        blog
        cart
        checkout
        comparison
        contact
        fonts
        shop
          [id]
          page.tsx M
        studio
        faviconico
        # globals.css
        # layout.tsx
        # page.tsx
        > components
        > data
        > sanity
        > lib
        > schemaTypes
        TS index.ts U
        TS products.ts U
        TS env.ts U
        TS structure.ts U
        .env
        .eslintignore
        .gitignore
        TS next-env.d.ts
        TS next.config.ts M
        TS package-lock.json M
        TS package.json M
      OUTLINE
      TIMELINE

page.tsx ..shop M X page.tsx ..[id] U
src > app > shop > page.tsx > Shop
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18     productImage: {
19       asset: {
20         url: string;
21       };
22     };
23     price: number;
24     isNew: boolean;
25   };
26
27   const query = `*_type == "product"[0..16]{
28     title,
29     _id,
30     isNew,
31     productImage {
32       asset -> {
33         url
34       }
35     },
36     price
37   }`;
38
39   const product: Product[] = await client.fetch(query);
40
41   return (
42     <div className="max-w-[1440px] h-auto">
43       </div>
44     </div>
45   );
46 }
47
48 <div className="text-center py-24 space-y-4" style={{ backgroundImage: "url('/shop.png')"}}>
49   <h2 className="text-4xl font-semibold">Shop</h2>
50   <div className="text-sm space-x-2">
51     <Link href="/" className="font-semibold">Home</Link>
52     <i className="fas fa-chevron-right text-xs"></i>
53     <Link href="/">Shop</Link>
54   </div>
55 </div>
```