## 1-REPORT DOCUMENTING THE FOLLOWING PROCESS

## API INTEGRATION PROCESS:

In my case API is Sanity and I am using the date entered into sanity manually and keeping the same schema of template no.6. When we loggin to sanity.io and create a new project under developer mode, we get a command to enter in terminal of nextjs project like

*npm create sanity@latest -- --project bnu2so6a --dataset production --template clean –typescript*

Then the system will ask for different questions for new setup. After successfully answering all the question the Sanity set integrate in your nextjs framework.

## ADJUSTMENT MADE TO SCHEMA:

These are my resources and following methods will be used for data transmission.

product, (GET)

order (POST)

customer (POST)

shipment (Third Party API will be used as shipping engine)

I have created a schema of invoice also and I shall work on invoice after streamlining all the above resource. There is a need of inventory resource but right now I am not included the details of inventory for simplicity purpose, only available stock is showing in product and order resource.

## Schema of product:

Schema planned:

productID,productName,productLine,productCategory,countryofOrigin,review,rating,quantityAvailable,iscustomization,materialUsed,dimension,color,price.

Adjusted Schema:

productName,productDescription,productDimension,slug,price,fullPrice,image,tags,color,quantity.

## Schema of order:

### Schema planned:

These fields are excluded from the present schema for conciseness

beginningInventory,newManufacturedproducts,closingInventory,monthWisesales,expectedDeliverydate,inspectionStatus.

### Adjusted Schema of order:

orderId,productid,customerId,customerName,quantitySold,price,SalesTax,paymentStatus,productDescription,shippingAddress,orderDate

## Schema of customer:

Schema planned:

address,customerId,email,contactNo,IsLoyaltycard,InvoiceNo,billingAddress

Adjusted Schema of customer:

customerId,customerName,customerEmail,customerAddress,cutomerMobileNumber,invoiceNumber

### MIGRATION STEPS AND TOOLS USED:

In this case Im not migrating data from any API into Sanity, since Im using my previous project and the data was already available in Sanity. But for the purpose of clarity Iam pleased to mention the process of migration steps I have used to migrate Sir Ali Jawwad Practice Hackathon.

1-clickon the api link provided for cloning purpose

2-getcode from the green Code dropdown menu in github

3-copy the url and add a prefix of "git clone" into a separate folder on the same drive having your nextjs project.

4-After running this command you will see the migration folder in  VS code.

5-Navigate to the migration folder and run “npm install”

6-create token in sanity project

7-add the token in env.local file

8-change the project id and token in the sanityClient.ts and sanityClient.js file in migration folder.

9-After all the above steps run the following command in my-app terminal to get the data from Sanity

```
“tsc && node importData.js”
```

10-shift directory from my-app to migration folder viceversa during the process.

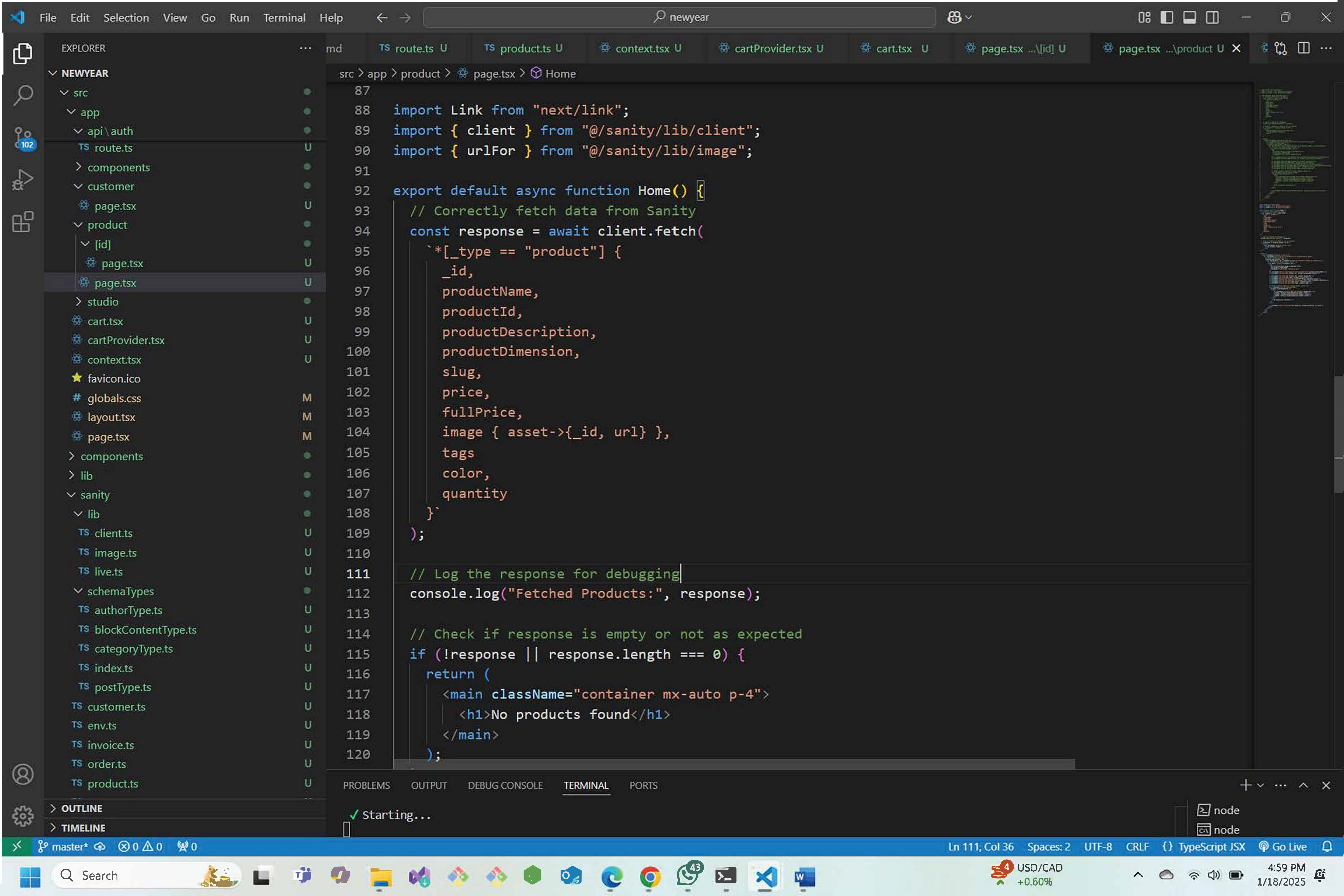
## 2-SCREEN SHOTS:

**API CALLS: (Annex-A)**

**DATA SUCCESSFULLY DISPLAYED ON FRONT END: (Annex-B)**

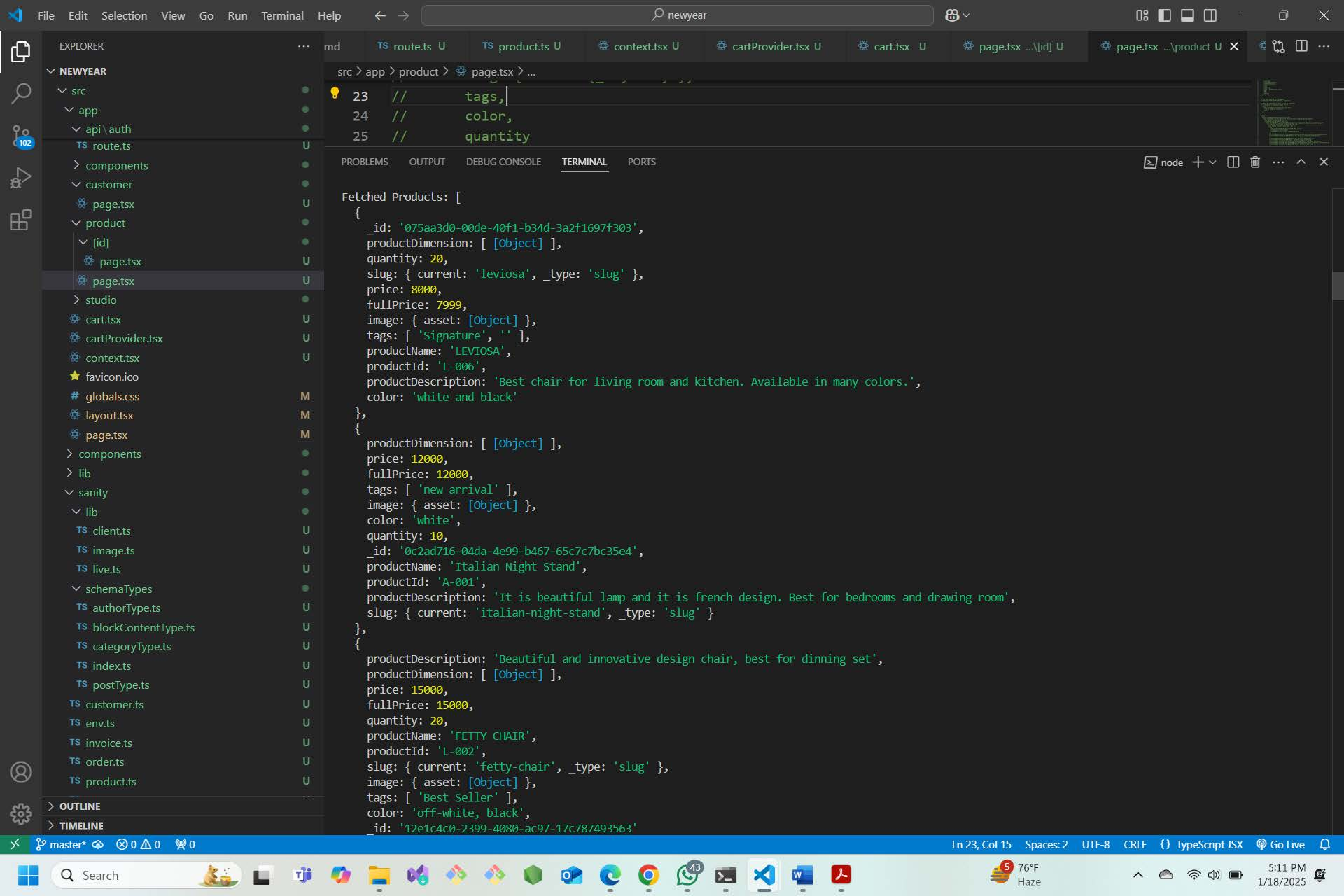
**POPULATED SANITY CMS FIELD: (Annex-C)**

**CODE SNIPPETS FOR API INTEGRATION & MIGRATION SCRIPTS: (ANNEX-D)**



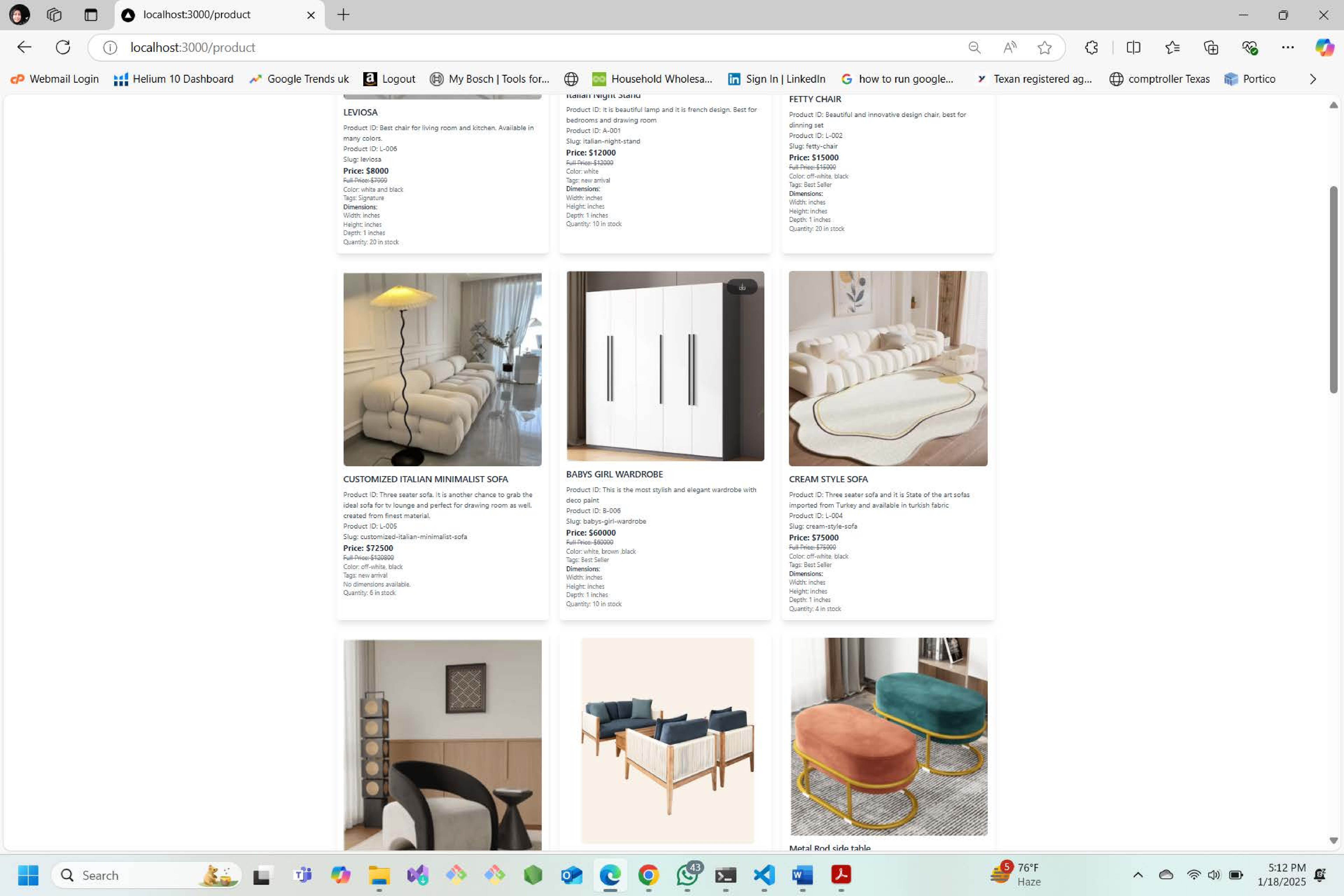
```tsx

import Link from "next/link";
import { client } from "@/sanity/lib/client";
import { urlFor } from "@/sanity/lib/image";

export default async function Home() {
  // Correctly fetch data from Sanity
  const response = await client.fetch(
    `*[_type == "product"] {
      _id,
      productName,
      productId,
      productDescription,
      productDimension,
      slug,
      price,
      fullPrice,
      image { asset->{_id, url} },
      tags
      color,
      quantity
    }`
  );

  // Log the response for debugging
  console.log("Fetched Products:", response);

  // Check if response is empty or not as expected
  if (!response || response.length === 0) {
    return (
      <main className="container mx-auto p-4">
        <h1>No products found</h1>
      </main>
    );
```

```
✓ Starting...
```



```
//        tags,
//        color,
//        quantity
```

```
Fetched Products: [
  {
    _id: '075aa3d0-00de-40f1-b34d-3a2f1697f303',
    productDimension: [ [Object] ],
    quantity: 20,
    slug: { current: 'leviosa', _type: 'slug' },
    price: 8000,
    fullPrice: 7999,
    image: { asset: [Object] },
    tags: [ 'Signature', '' ],
    productName: 'LEVIOSA',
    productId: 'L-006',
    productDescription: 'Best chair for living room and kitchen. Available in many colors.',
    color: 'white and black'
  },
  {
    productDimension: [ [Object] ],
    price: 12000,
    fullPrice: 12000,
    tags: [ 'new arrival' ],
    image: { asset: [Object] },
    color: 'white',
    quantity: 10,
    _id: '0c2ad716-04da-4e99-b467-65c7c7bc35e4',
    productName: 'Italian Night Stand',
    productId: 'A-001',
    productDescription: 'It is beautiful lamp and it is french design. Best for bedrooms and drawing room',
    slug: { current: 'italian-night-stand', _type: 'slug' }
  },
  {
    productDescription: 'Beautiful and innovative design chair, best for dinning set',
    productDimension: [ [Object] ],
    price: 15000,
    fullPrice: 15000,
    quantity: 20,
    productName: 'FETTY CHAIR',
    productId: 'L-002',
    slug: { current: 'fetty-chair', _type: 'slug' },
    image: { asset: [Object] },
    tags: [ 'Best Seller' ],
    color: 'off-white, black',
    _id: '12e1c4c0-2399-4080-ac97-17c787493563'
```



LEVIOSA

Product ID: Best chair for living room and kitchen. Available in many colors.

Product ID: L-006

Slug: leviosa

**Price: $8000**

~~Full Price: $7000~~

Color: white and black

Tags: Signature

**Dimensions:**

Width: inches

Height: inches

Depth: 1 inches

Quantity: 20 in stock

Italian Night Stand

Product ID: It is beautiful lamp and it is french design. Best for bedrooms and drawing room

Product ID: A-001

Slug: italian-night-stand

**Price: $12000**

~~Full Price: $12000~~

Color: white

Tags: new arrival

**Dimensions:**

Width: inches

Height: inches

Depth: 1 inches

Quantity: 10 in stock

FETTY CHAIR

Product ID: Beautiful and innovative design chair, best for dinning set

Product ID: L-002

Slug: fetty-chair

**Price: $15000**

~~Full Price: $15000~~

Color: off-white, black

Tags: Best Seller

**Dimensions:**

Width: inches

Height: inches

Depth: 1 inches

Quantity: 20 in stock

CUSTOMIZED ITALIAN MINIMALIST SOFA

Product ID: Three seater sofa. It is another chance to grab the ideal sofa for tv lounge and perfect for drawing room as well. created from finest material.

Product ID: L-005

Slug: customized-italian-minimalist-sofa

**Price: $72500**

~~Full Price: $120800~~

Color: off-white, black

Tags: new arrival

No dimensions available.

Quantity: 6 in stock

BABYS GIRL WARDROBE

Product ID: This is the most stylish and elegant wardrobe with deco paint

Product ID: B-006

Slug: babys-girl-wardrobe

**Price: $60000**

~~Full Price: $60000~~

Color: white, brown ,black

Tags: Best Seller

**Dimensions:**

Width: inches

Height: inches

Depth: 1 inches

Quantity: 10 in stock

CREAM STYLE SOFA

Product ID: Three seater sofa and it is State of the art sofas imported from Turkey and available in turkish fabric

Product ID: L-004

Slug: cream-style-sofa

**Price: $75000**

~~Full Price: $75000~~

Color: off-white, black

Tags: Best Seller

**Dimensions:**

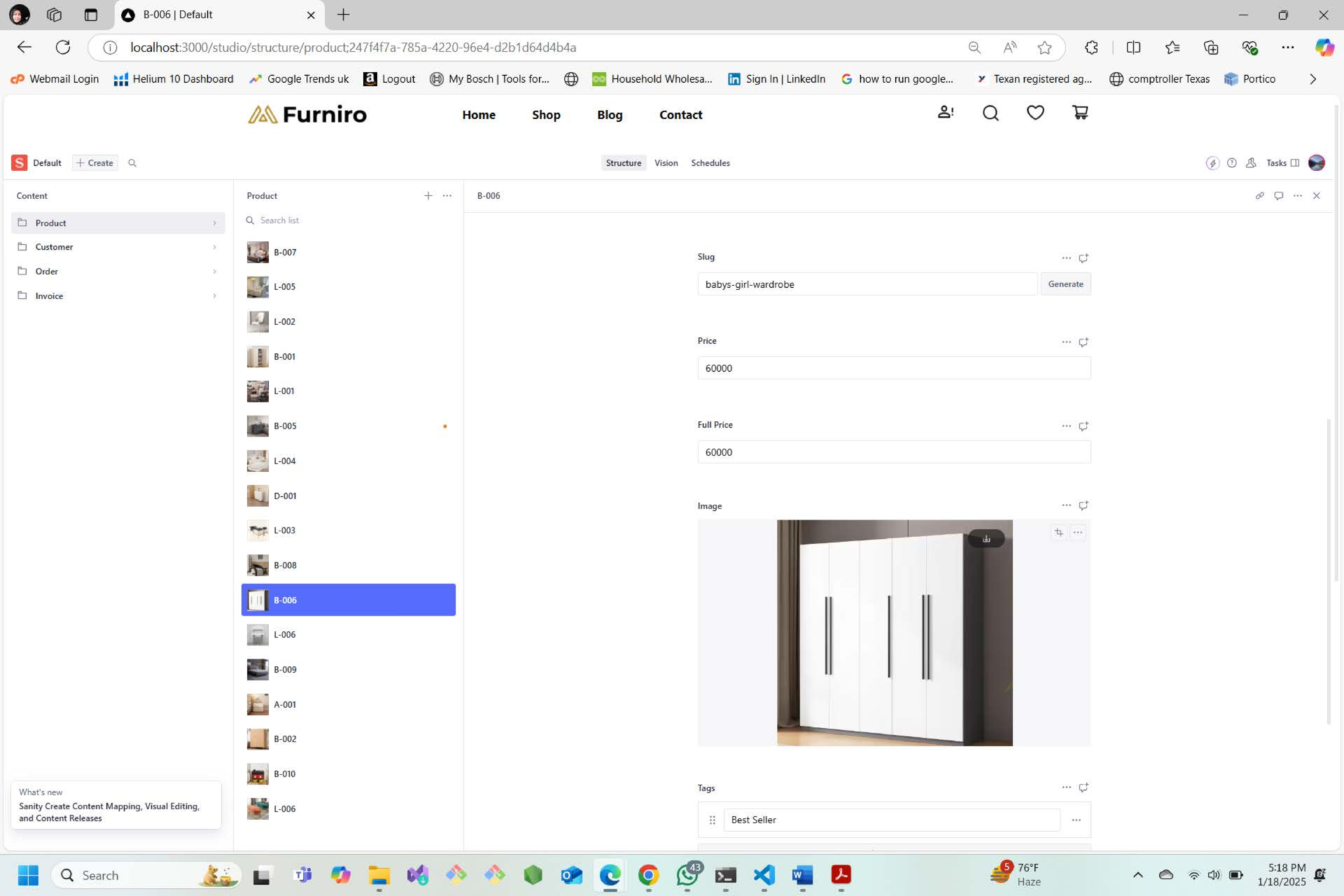
Width: inches

Height: inches

Depth: 1 inches

Quantity: 4 in stock

Metal Rod side table



Slug

babys-girl-wardrobe

Price

60000

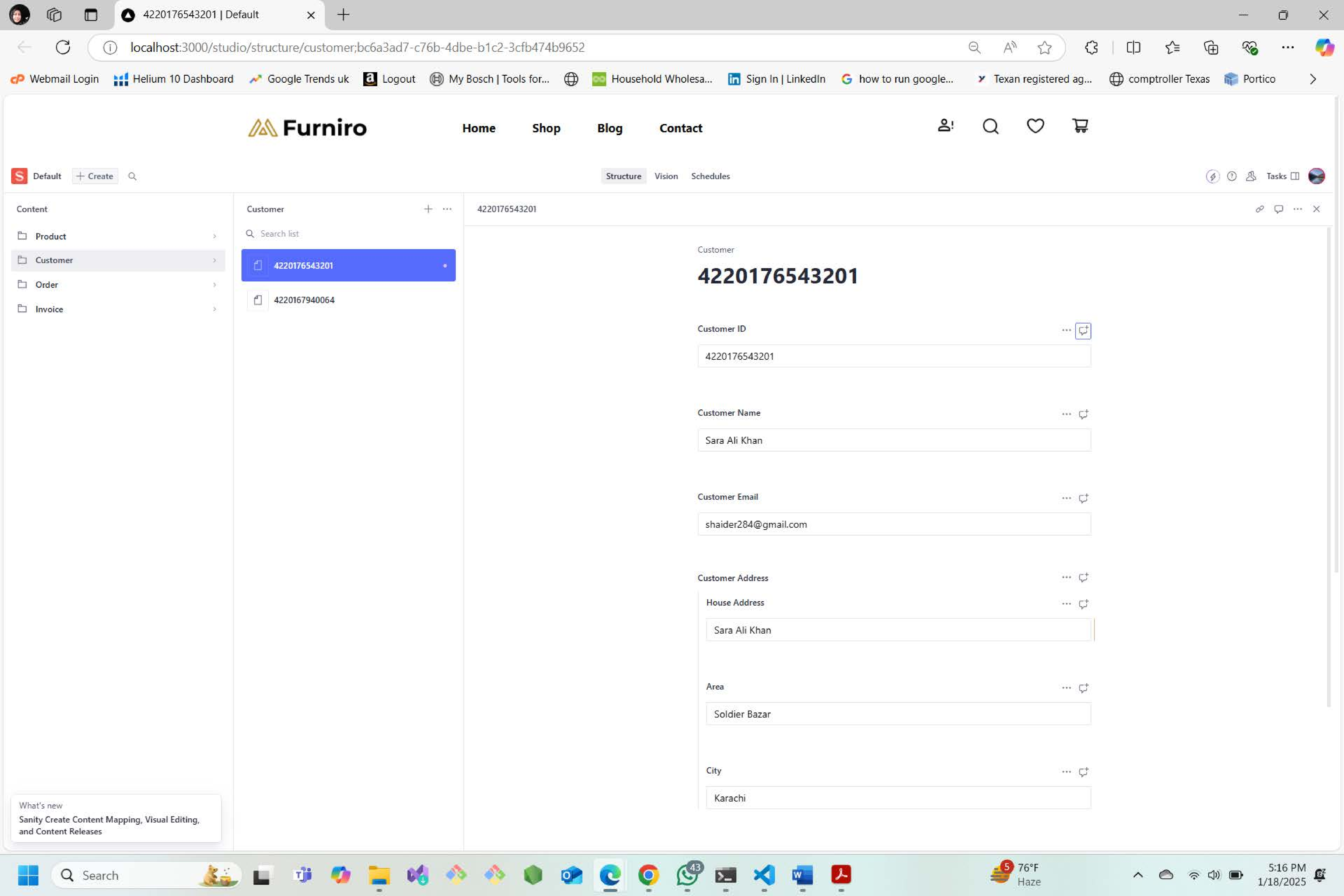
Full Price

60000

Image

Tags

Best Seller



Customer

# 4220176543201

Customer ID: 4220176543201

Customer Name: Sara Ali Khan

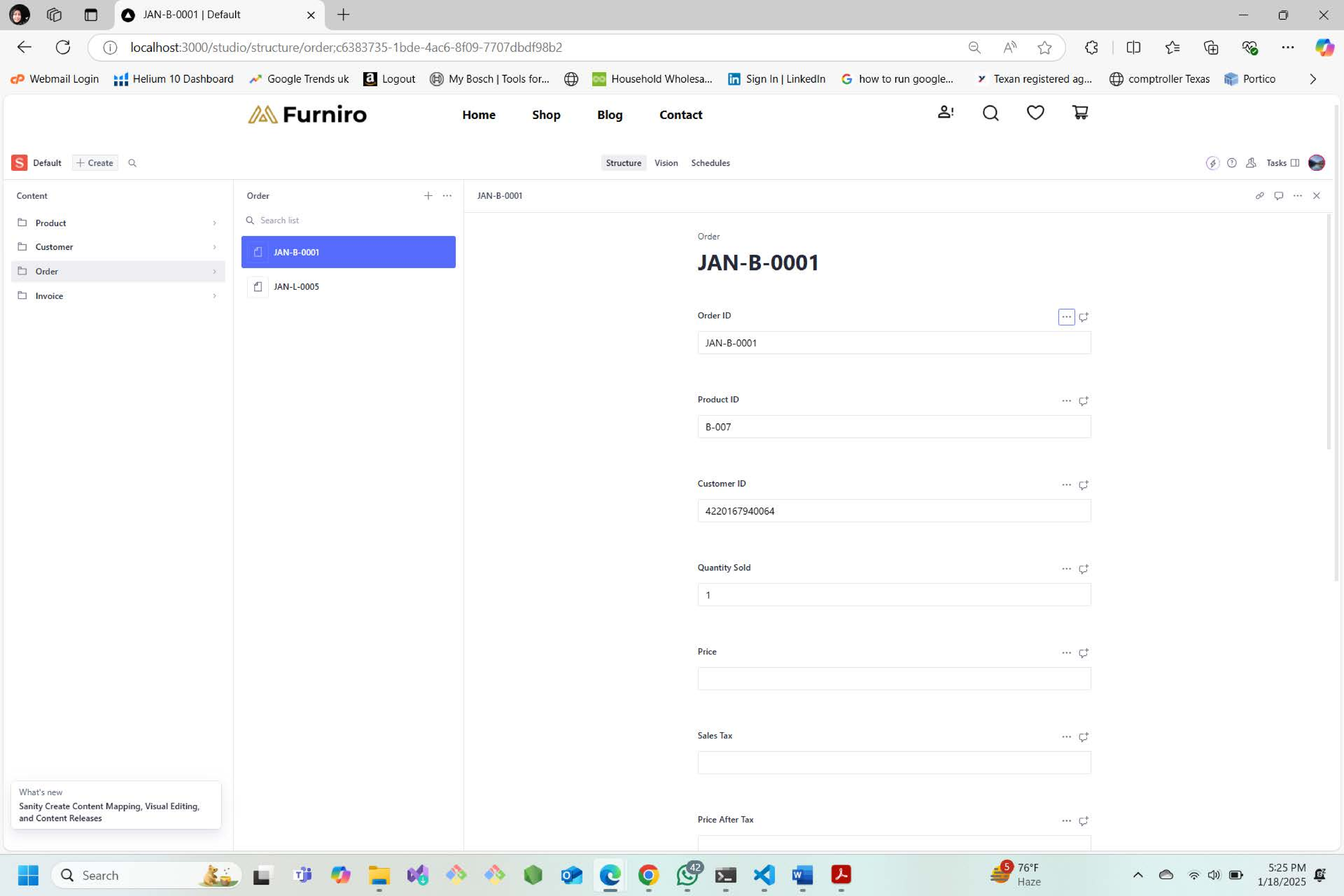
Customer Email: shaider284@gmail.com

Customer Address

House Address: Sara Ali Khan

Area: Soldier Bazar

City: Karachi



Order

JAN-B-0001

Order ID: JAN-B-0001

Product ID: B-007

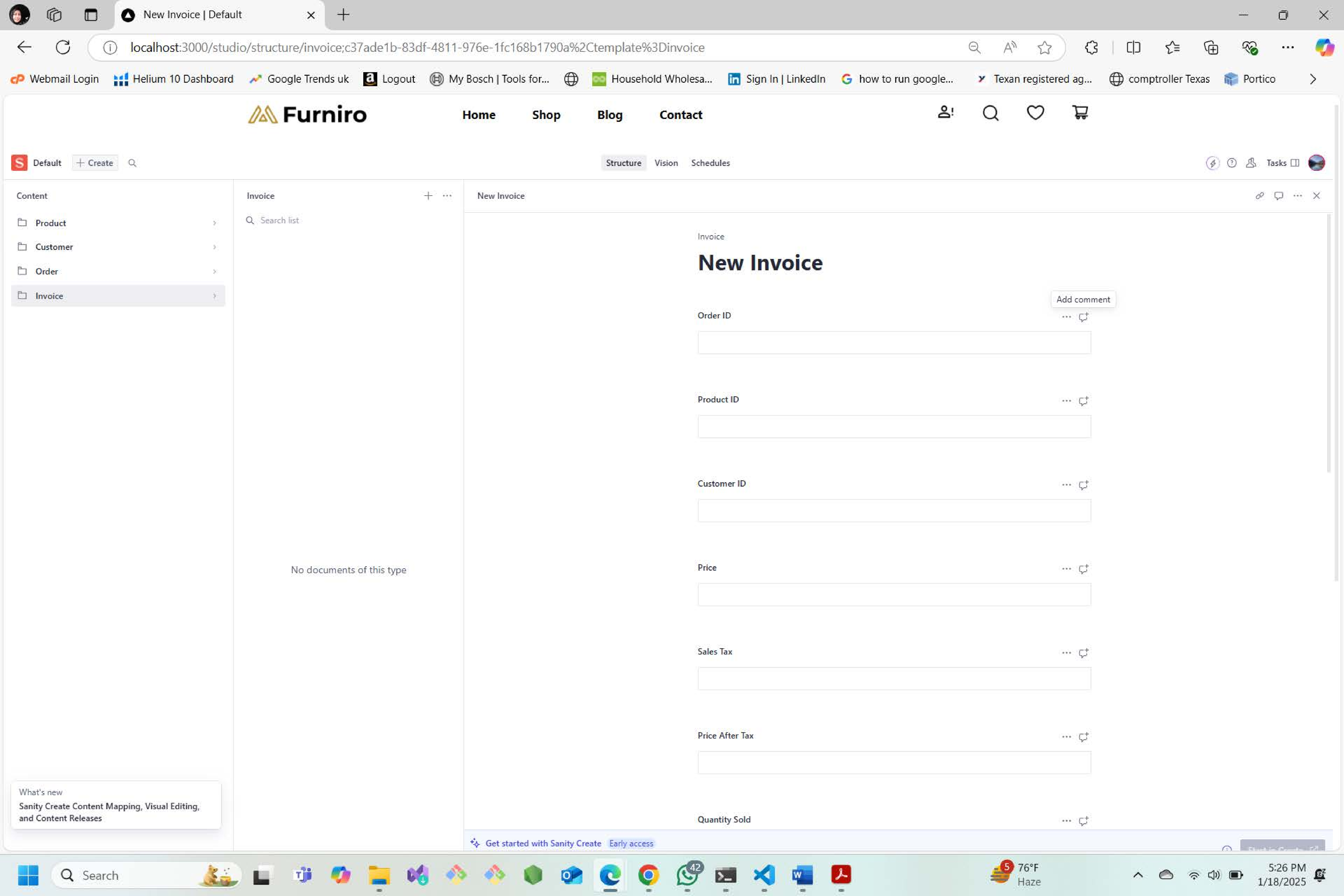
Customer ID: 4220167940064

Quantity Sold: 1

Price:

Sales Tax:

Price After Tax:



Invoice

# New Invoice

Order ID

Product ID

Customer ID

Price

Sales Tax

Price After Tax

Quantity Sold