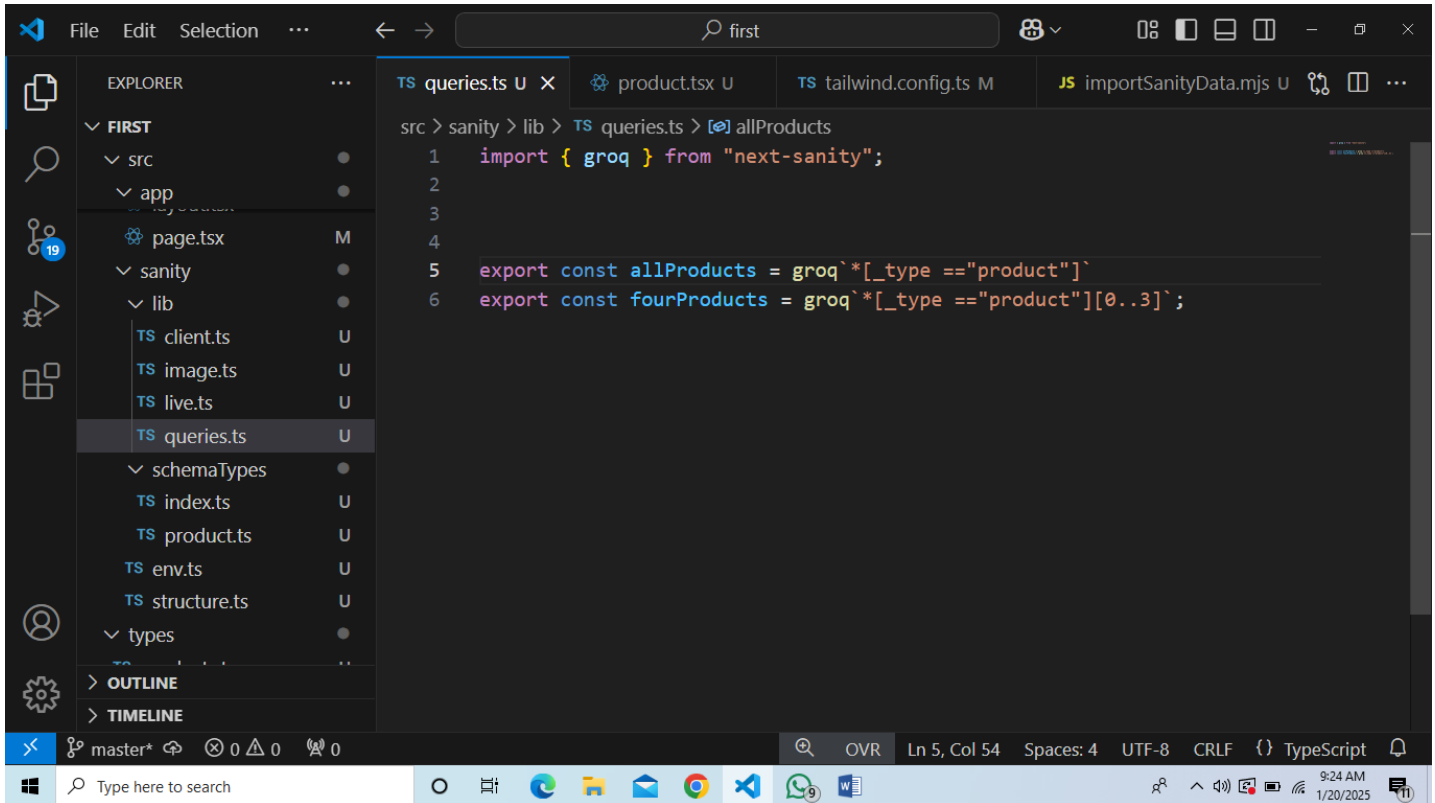


# Day 4 Activities

## Building Dynamic Frontend Components for Your Marketplace

### Step 1

Create queries file **queries.ts** in lib folder.



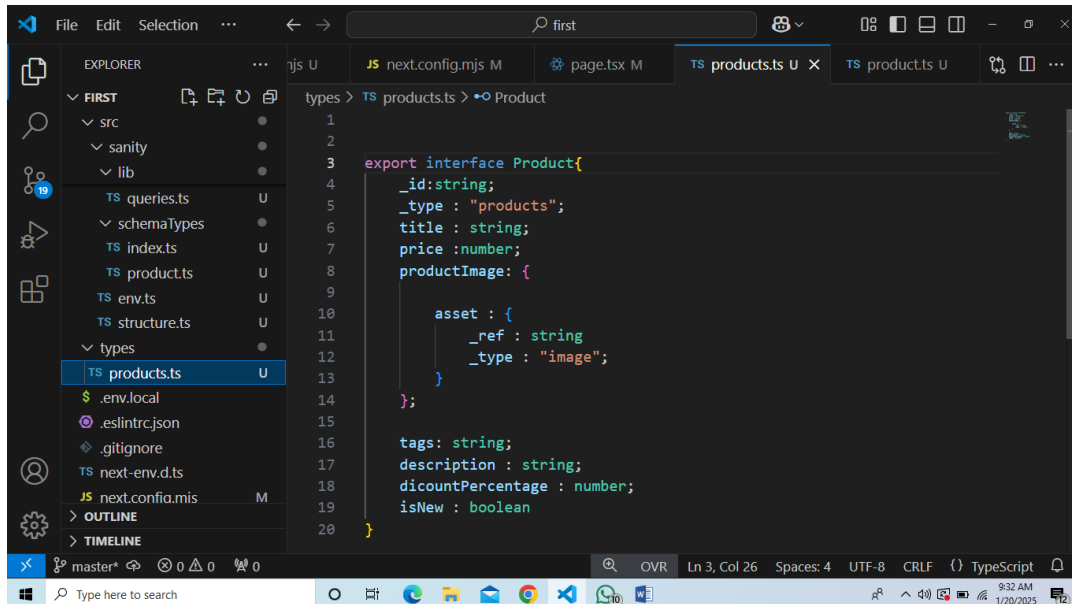
The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar displays the project structure. The 'lib' folder is expanded, showing files like client.ts, image.ts, live.ts, and queries.ts. The 'queries.ts' file is selected. The main editor area shows the content of 'queries.ts' with the following code:

```
src > sanity > lib > TS queries.ts > [?] allProducts
1  import { groq } from "next-sanity";
2
3
4
5  export const allProducts = groq`*_type == "product"`
6  export const fourProducts = groq`*_type == "product" [0..3]`;
```

The status bar at the bottom indicates the file is 'master\*', the cursor is at 'Ln 5, Col 54', and the encoding is 'UTF-8'.

## Step 2

Define Product type create folder then **product.ts**

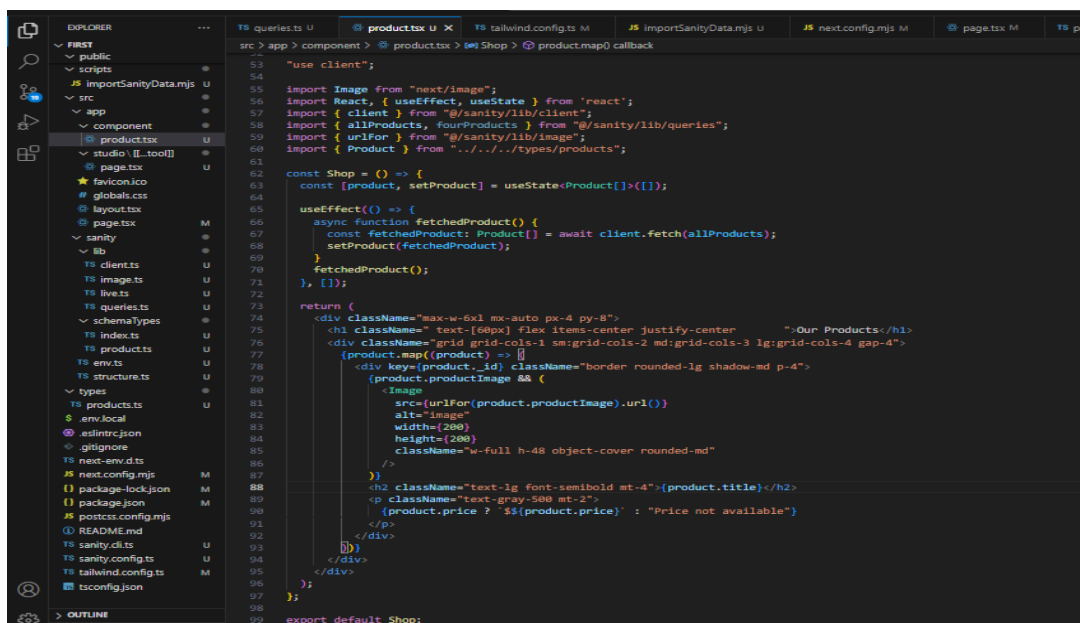


The screenshot shows the VS Code editor with the file explorer on the left. The 'types' folder is expanded, and 'product.ts' is selected. The main editor displays the following TypeScript code:

```
1
2
3 export interface Product{
4   _id:string;
5   _type : "products";
6   title : string;
7   price :number;
8   productImage: {
9
10    asset : {
11      _ref : string
12      _type : "image";
13    }
14  };
15
16  tags: string;
17  description : string;
18  dicountPercentage : number;
19  isNew : boolean
20 }
```

## Step 3

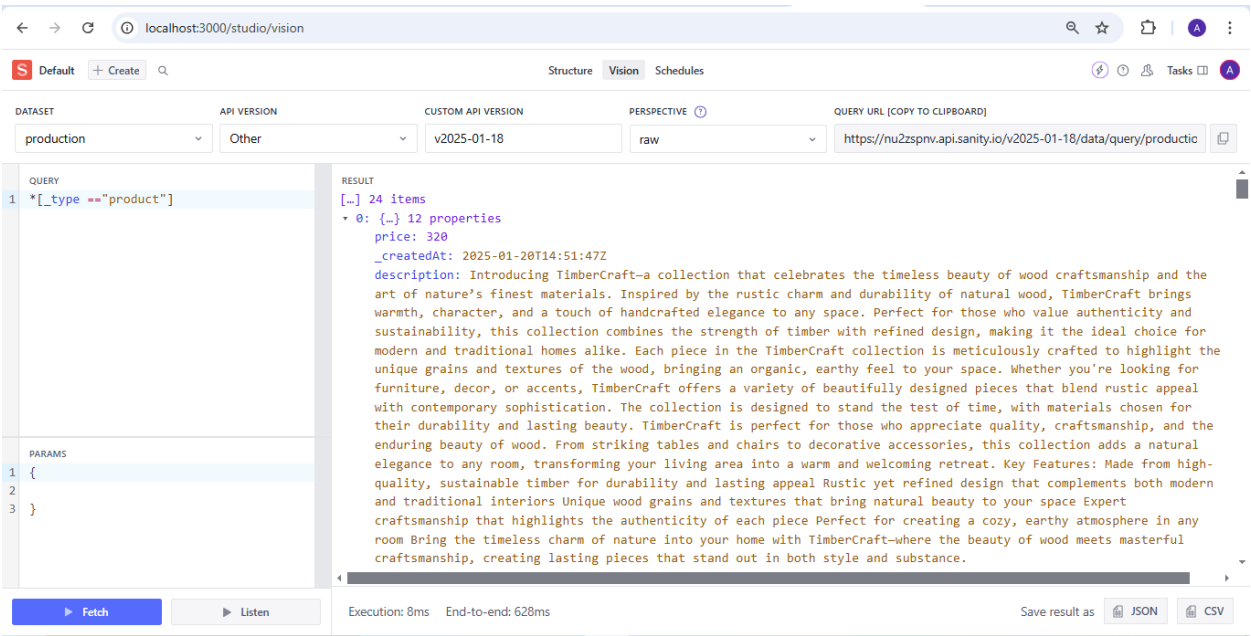
Create components folder then file **product.tsx**



The screenshot shows the VS Code editor with the file explorer on the left. The 'components' folder is expanded, and 'product.tsx' is selected. The main editor displays the following TypeScript code:

```
53 "use client";
54
55 import Image from "next/image";
56 import React, { useEffect, useState } from 'react';
57 import { client } from "@sanity/lib/client";
58 import { allProducts, fourProducts } from "@sanity/lib/queries";
59 import { urlFor } from "@sanity/lib/image";
60 import { Product } from "../../types/products";
61
62 const Shop = () => {
63   const [product, setProduct] = useState<Product>([]);
64
65   useEffect(() => {
66     async function fetchedProduct() {
67       const fetchedProduct: Product[] = await client.fetch(allProducts);
68       setProduct(fetchedProduct);
69     }
70     fetchedProduct();
71   }, []);
72
73   return (
74     <div className="max-w-6xl mx-auto px-4 py-8">
75       <h1 className="text-[60px] flex items-center justify-center"> Our Products</h1>
76       <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-4">
77         {product.map((product) => (
78           <div key={product._id} className="border rounded-lg shadow-md p-4">
79             {product.productImage && (
80               <image
81                 src={urlFor(product.productImage).url()}
82                 alt="image"
83                 width={200}
84                 height={200}
85                 className="w-full h-48 object-cover rounded-md"
86               />
87             )}
88             <h2 className="text-lg font-semibold mt-4">{product.title}</h2>
89             <p className="text-gray-500 mt-2">
90               {product.price ? `${product.price}` : "Price not available"}
91             </p>
92           </div>
93         ))}
94       </div>
95     </div>
96   );
97 }
98
99 export default Shop;
```

# Step 4



# Step 3

