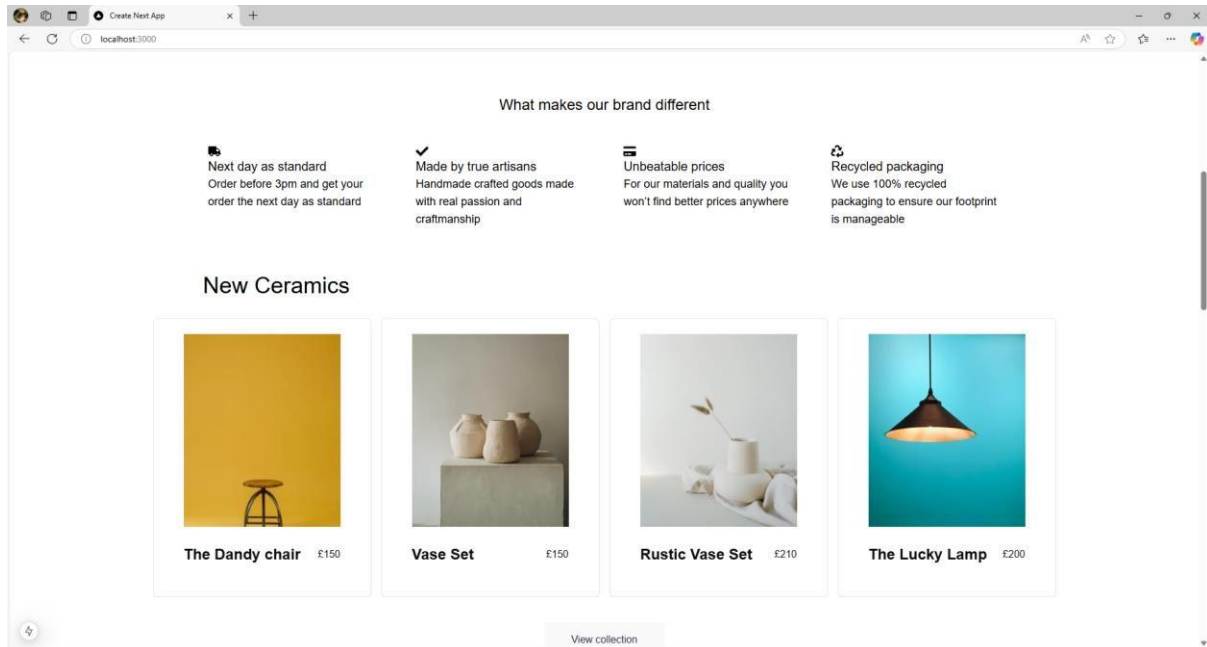


"Day 4 - Dynamic Frontend Components

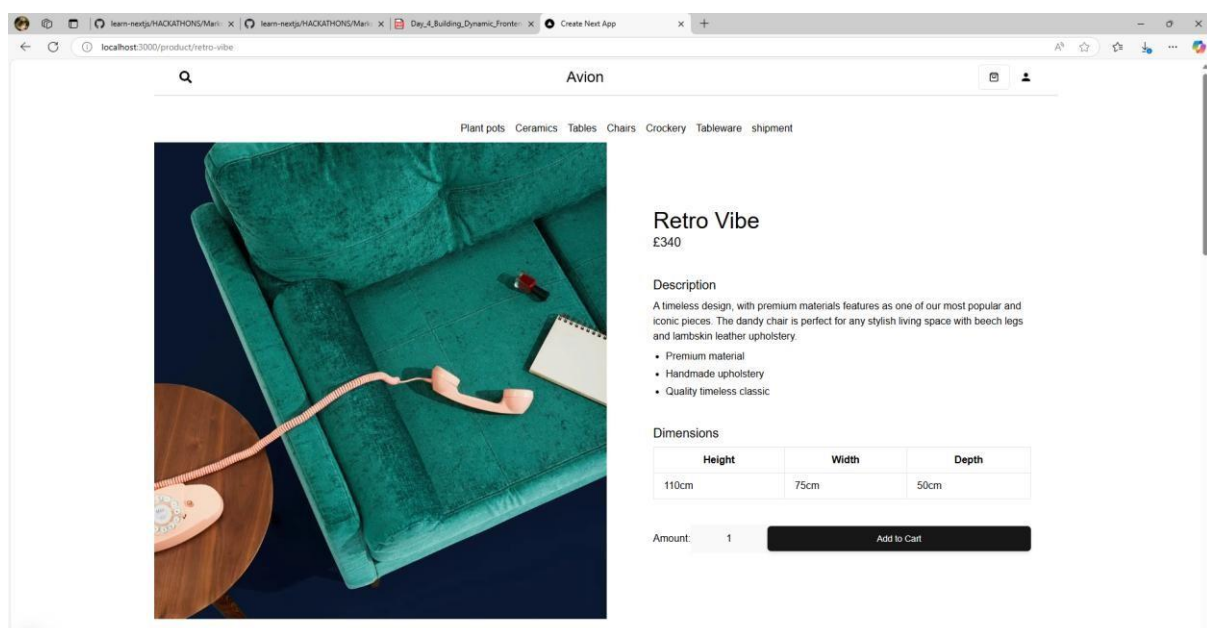
Product Listing Component:

Product List with filter of New ceramic tag.



Product Detail Page:

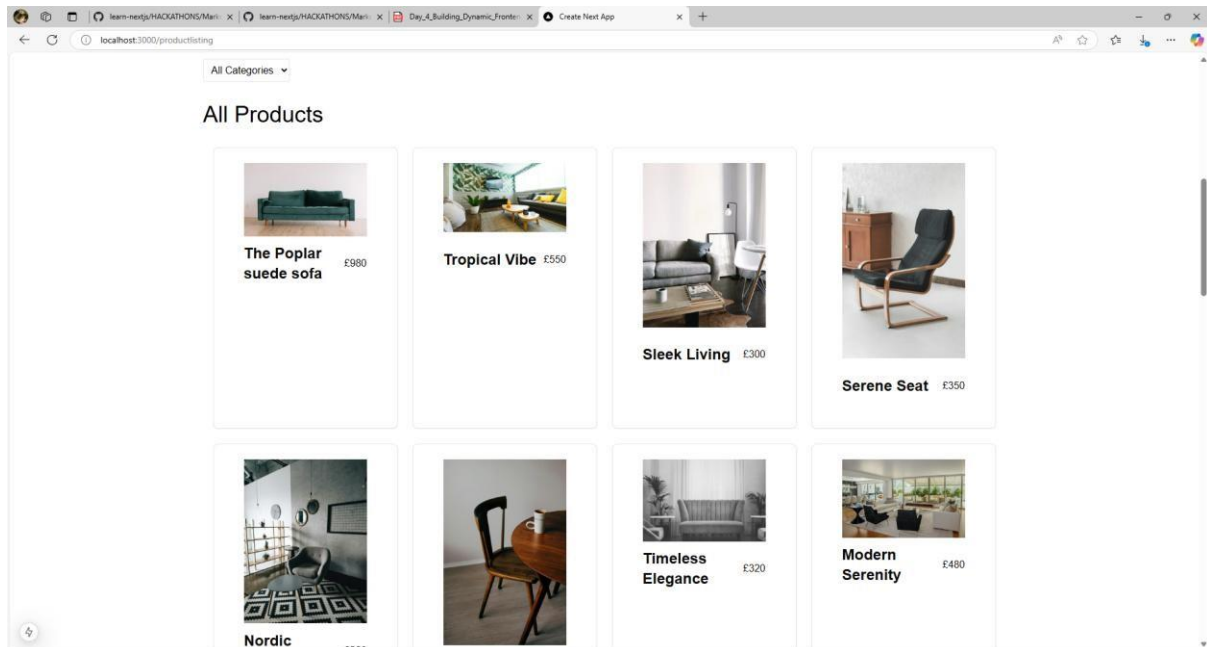
A Dynamic product detail page that is fetching data from sanity on the base of slug field of products.



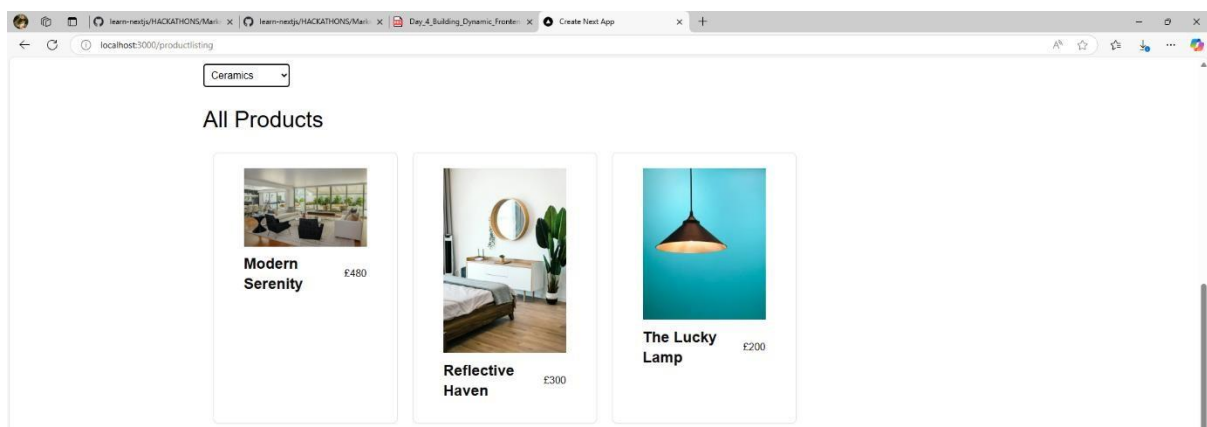
Category Component:

Category component that has a dropdown list to filter categories coming from sanity.

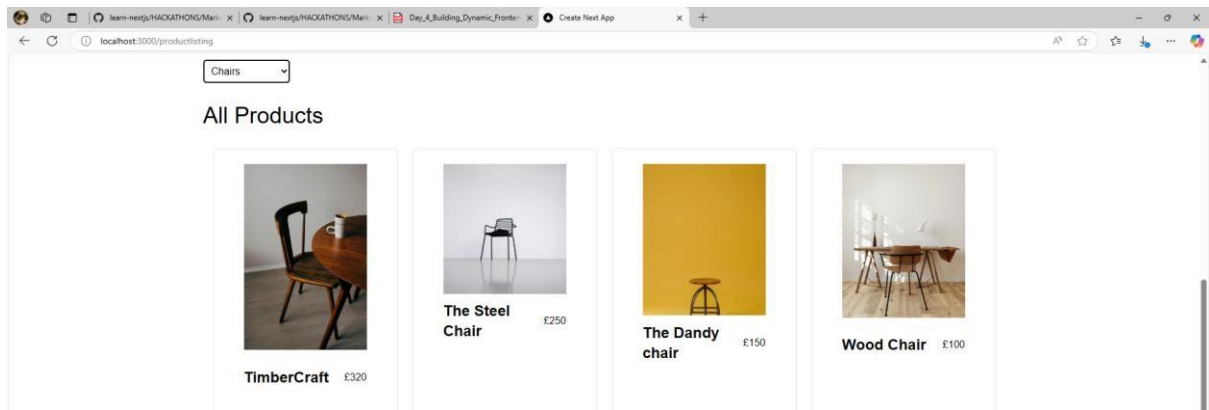
1- All products:



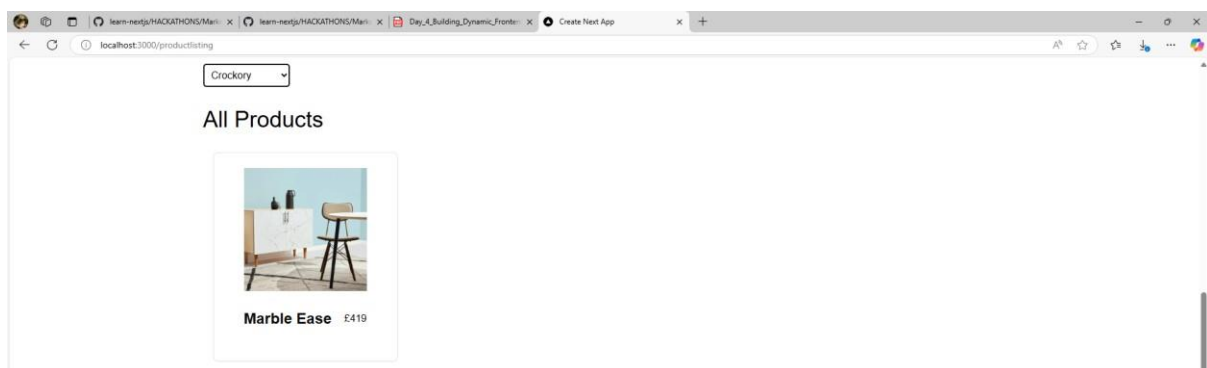
2- Ceramics



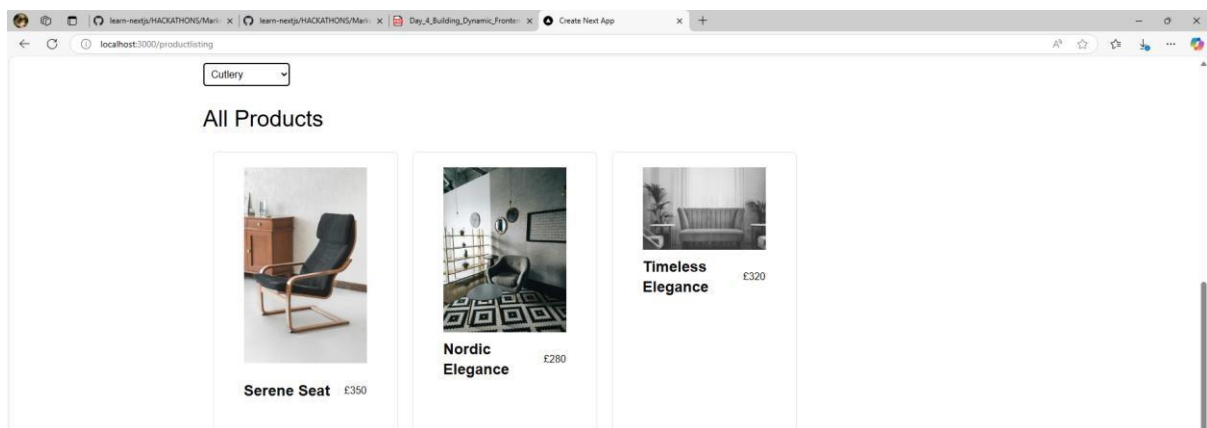
3- Chairs



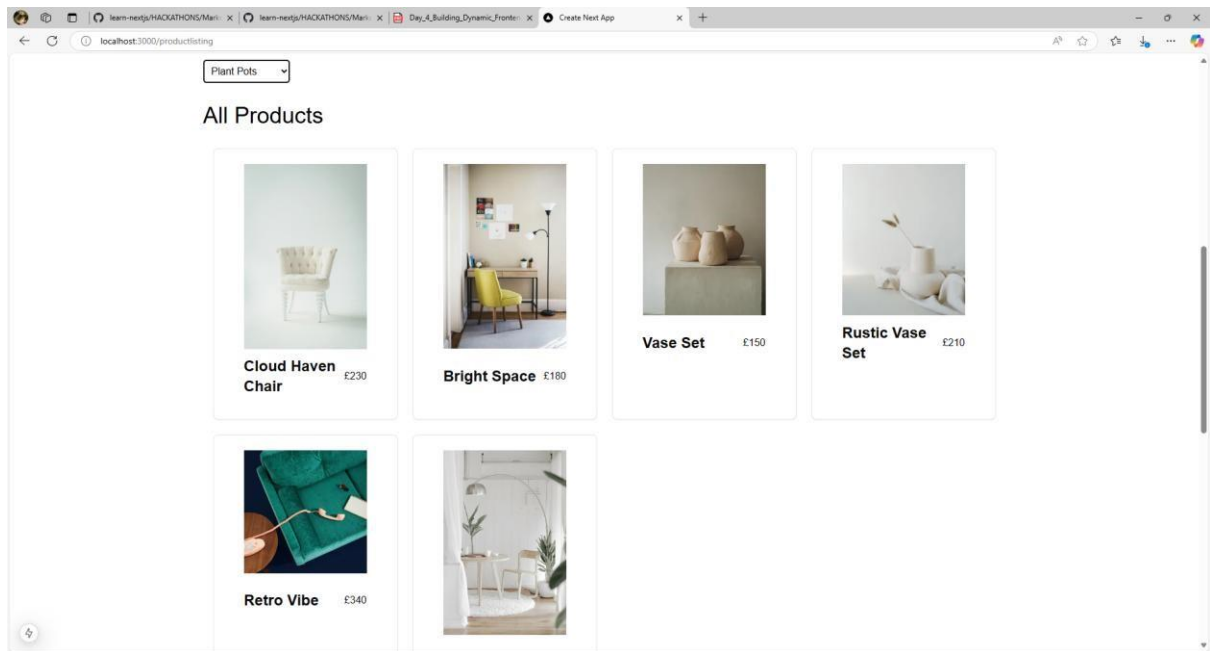
4- Crockery



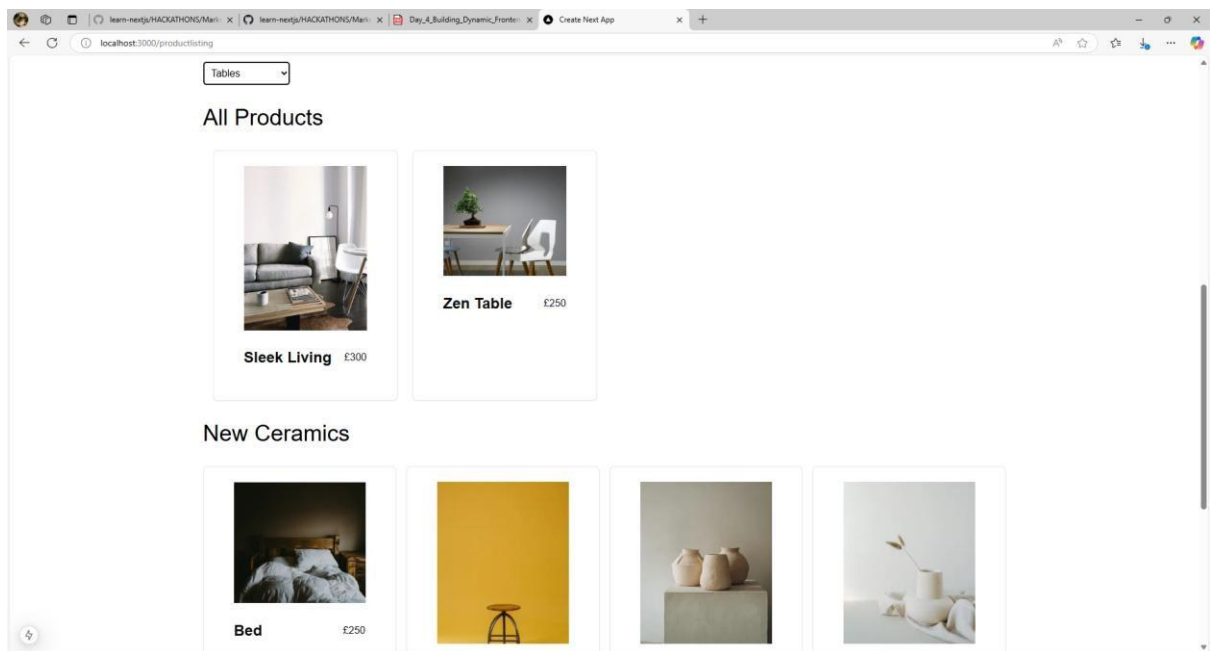
5- Cutlery



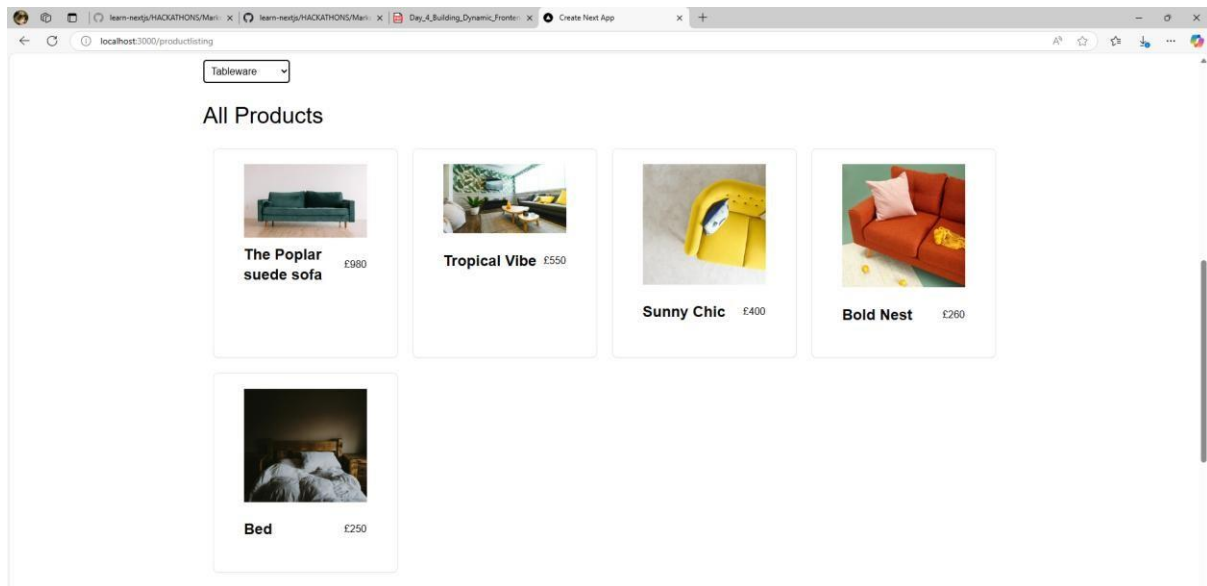
6- Plant pots



7- Tables

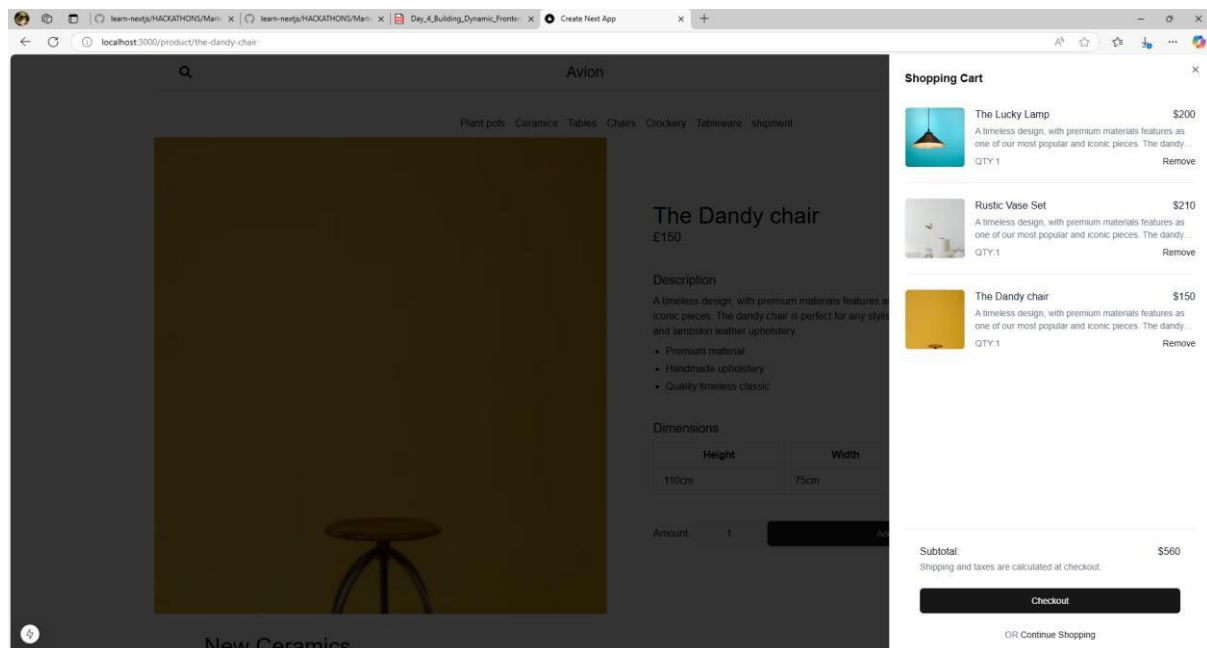


8- Tableware



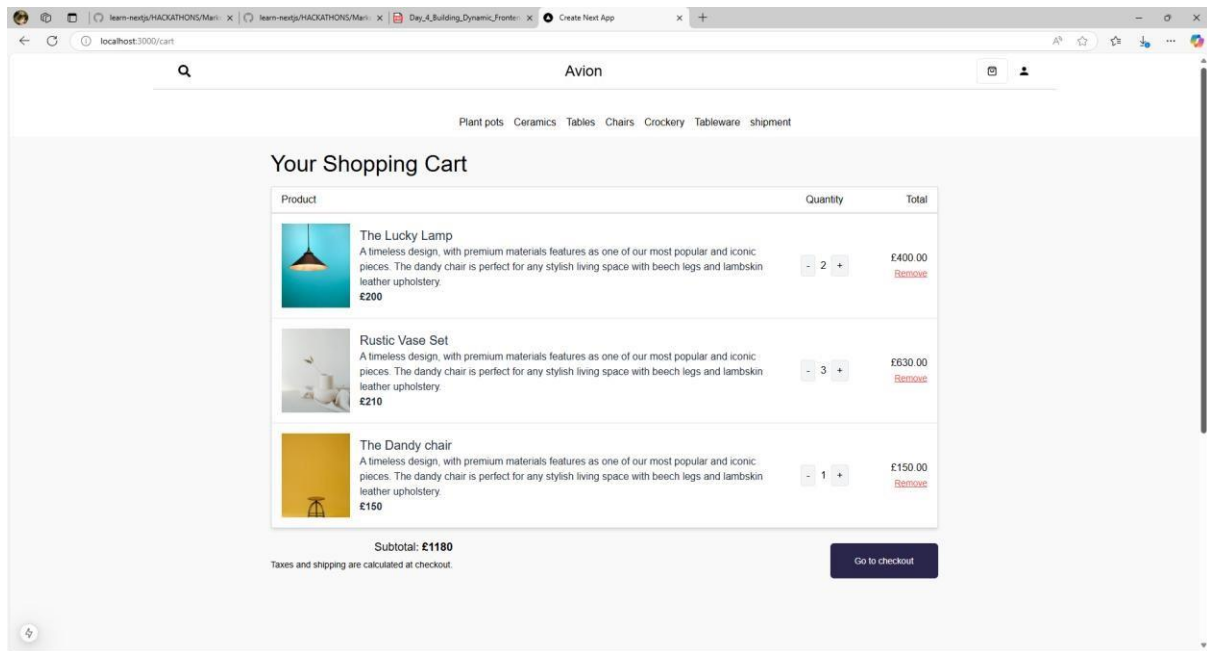
Add to Cart Component:

ShoppingCartModal Component display on right side when click add to cart or cart button on navbar design using shadcn ui sheet and shopping cart hook.



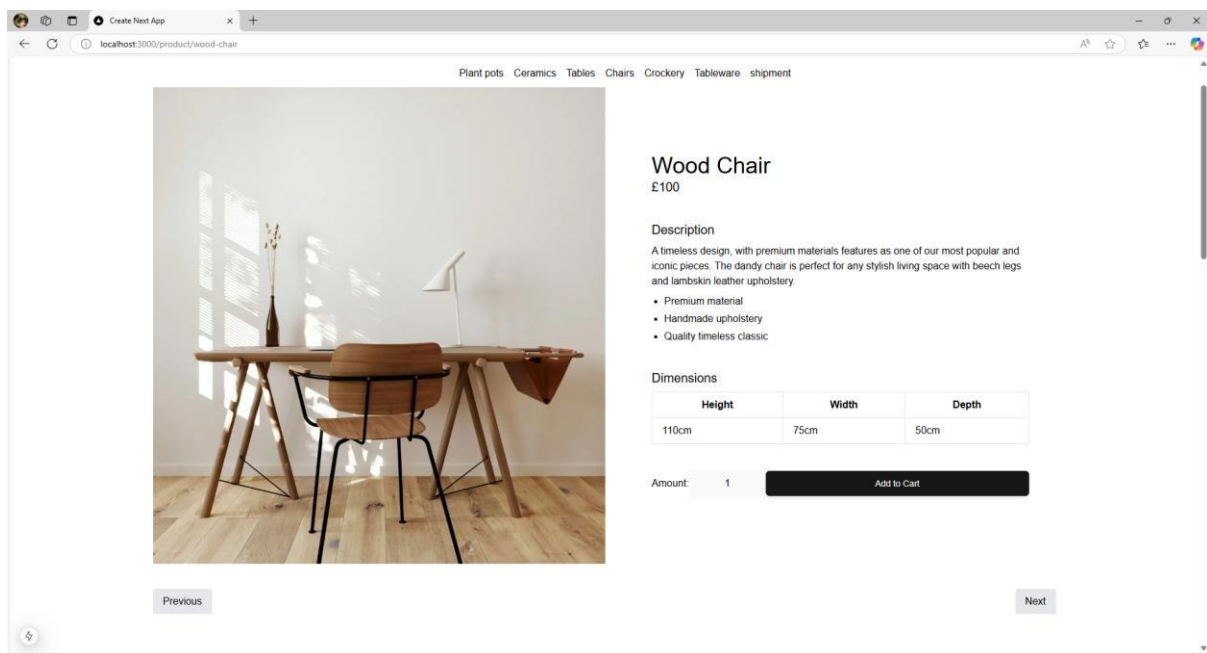
Cart Page:-

For add or subtract quantities of products that add in cart and show price of total products then subtotal of all products.

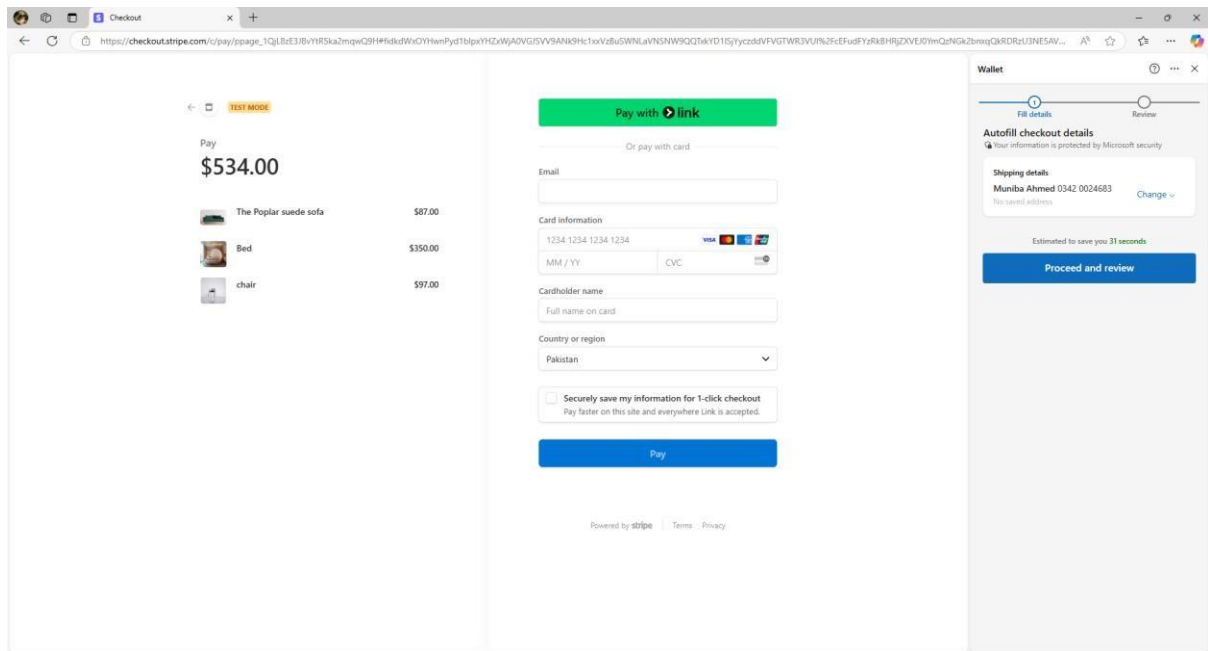


Pagination:

A pagination from shadcn ui added to my product detail dynamic route so we can check the detail of previous and next product through pagination:



Checkout component with stripe:



Code Snippet for important components and pages:

1- Product listing with new ceramic tag:

```

1 // Code hereimport client from "@sanity/lib/client";
2 import Image from "next/image";
3 import { Carousel, CarouselContent, CarouselItem } from "./ui/carousel";
4 import { Card, CardContent, CardFooter, CardHeader } from "./ui/card";
5 import Link from "next/link";
6
7 interface Product {
8   image: string;
9   name: string;
10  price: number;
11  description: string;
12  slug: { current: string }; // Correct slug structure from Sanity
13  price_id: string;
14  tags: string[];
15 }
16
17 const Ceramics = async () => {
18   // Sanity query to fetch products with the 'new ceramics' tag
19   const query = `*[ _type == 'product' && 'new ceramics' in tags ]{
20     "image": image.asset->url,
21     name,
22     price,
23     description,
24     slug, // Fetch slug object
25     price_id,
26     tags
27   }`;
28
29   const res: Product[] = await client.fetch(query);
30
31   return (
32     <div className="md:max-w-[1440px] w-full h-auto mx-auto">
33       { /* New Ceramics Section */ }
34       <div>
35         <div className="w-[1280px] mx-auto">
36           <h1 className="text-4xl my-8">New Ceramics</h1>
37         </div>
38
39         { /* Carousel Container */ }
40         <Carousel className="w-full max-w-full">
41           <CarouselContent>
42             { /* Map through the products */ }
43             {res.map((product: Product, index: number) => (
44               <CarouselItem
45                 key={index}
46                 className="md:basis-1/2 lg:basis-1/4"
47               >
48                 <Card className="w-full">
49                   <CardContent className="flex flex-col items-center justify-center">
50                     <CardHeader>
51                       <Link href={` /product/${product.slug.current} `}>
52                         <Image
53                           src={product.image || "/product1.png"}
54                           alt={product.name}
55                           height={1000}
56                           width={1000}
57                           className="h-full w-full object-cover cursor-pointer"
58                         />
59                       </Link>
60                     </CardHeader>
61                     <CardFooter className="flex items-center justify-between w-full h-[63px]">
62                       <p className="font-bold text-2xl">{product.name}</p>
63                       <p>£{product.price}</p>
64                     </CardFooter>
65                   </CardContent>
66                 </Card>
67               </CarouselItem>
68             )))
69           </CarouselContent>
70         </Carousel>
71       </div>
72     </div>
73   );
74 };
75
76 export default Ceramics;
77

```


2- Product detail dynamic route with pagination:

3- Category component that filters category:

```

1 'use client';
2
3 import { useEffect, useState } from 'react';
4 import client from '@sanity/lib/client';
5 import Image from 'next/image';
6 import { Card, CardContent, CardFooter, CardHeader } from './ui/card';
7 import Link from 'next/link';
8
9 interface Product {
10   _id: string;
11   image: string;
12   name: string;
13   price: number;
14   description: string;
15   slug: { current: string }; // Correct slug structure from Sanity
16   price_id: string;
17   tags: string;
18 }
19
20 interface Category {
21   _id: string;
22   name: string;
23   slug: {
24     current: string;
25   };
26 }
27
28 const Ceramics = () => {
29   const [products, setProducts] = useState<Product[]>([]);
30   const [categories, setCategories] = useState<Category[]>([]);
31   const [selectedCategory, setSelectedCategory] = useState<string>('');
32
33   // Fetch all categories on component mount
34   useEffect(() => {
35     const fetchCategories = async () => {
36       try {
37         const categoriesQuery = `*[_type == "category"][_id, name, "slug": slug.current];`
38         const categoriesData: Category[] = await client.fetch(categoriesQuery);
39         setCategories(categoriesData);
40       } catch (error) {
41         console.error('Error fetching categories:', error);
42       }
43     };
44
45     fetchCategories();
46   }, []);
47
48   const handleCategoryChange = (e: React.ChangeEvent<HTMLSelectElement>) => {
49     setSelectedCategory(e.target.value);
50   };
51
52   // Fetch products based on selected category
53   useEffect(() => {
54     const fetchProducts = async () => {
55       try {
56         const categoryFilter = selectedCategory
57           ? `&& references(*[_type == "category" && name == "${selectedCategory}"]_id)`
58           : '';
59
60         const query = `*[_type == "product" ${categoryFilter}]{
61           _id,
62           "image": image.asset.url,
63           name,
64           price,
65           description,
66           slug,
67           price_id,
68           tags
69         }`;
70
71         const productsData: Product[] = await client.fetch(query);
72         setProducts(productsData);
73       } catch (error) {
74         console.error('Error fetching products:', error);
75       }
76     };
77
78     fetchProducts();
79   }, [selectedCategory]);
80
81   return (
82     <div className="md:mx-w-[1440px] w-full h-auto mx-auto">
83       { /* Dropdown to filter by Category */ }
84       <div className="w-[1280px] mx-auto my-4">
85         <select
86           value={categories.find((category) => category._id === selectedCategory)?.slug.current}
87           onChange={handleCategoryChange}
88           className="border p-2 rounded">
89           <option value="">All Categories</option>
90           {categories.map((category) => {
91             <option key={category._id} value={category.slug.current}>
92               {category.name}
93             </option>
94           })}
95         </select>
96       </div>
97
98       { /* New Ceramics Section */ }
99       <div>
100         <div>
101           <div className="w-[1280px] mx-auto">
102             <div className="text-4xl my-8">All Products</div>
103           </div>
104
105           { /* Grid Container */ }
106           <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-4 gap-6 px-4">
107             { /* Map through the products */ }
108             {products.length > 0 ? (
109               products.map((product) => {
110                 <Card key={product._id} className="w-full">
111                   <CardContent className="flex flex-col items-center justify-center">
112                     <CardHeader>
113                       <Link href={`/product/${product.slug.current}`}>
114                         <Image
115                           src={product.image || "/product1.png"}
116                           alt={product.name}
117                           height={1000}
118                           width={1000}
119                           className="h-full w-full object-cover cursor-pointer">
120                       </Image>
121                     </CardHeader>
122
123                     <CardFooter className="flex items-center justify-between w-full h-[50px]">
124                       <div>
125                         <div>
126                           <div>
127                             <div>
128                               <div>
129                                 <div>
130                                   <div>
131                                     <div>
132                                       <div>
133                                         <div>
134                                           <div>
135                                             <div>
136                                               <div>
137                                                 <div>
138                                                 </div>
139                                               </div>
140                                             </div>
141                                           </div>
142                                         </div>
143                                       </div>
144                                     </div>
145                                   </div>
146                                 </div>
147                               </div>
148                             </div>
149                           </div>
150                         </div>
151                       </div>
152                     </CardFooter>
153                   </CardContent>
154                 </Card>
155               ) : (
156                 <p>No products found for this category.</p>
157               )
158             ) : null }
159           </div>
160         </div>
161       </div>
162     </div>
163   );
164 }
165
166 export default Ceramics;
167

```

Conclusion:

- 1- Here is the outcome of front-end ui that is rendered from the headless CMS i.e: sanity. I write groq for fetching products, product details , category and tags in different component and pages.
- 2- Challenges I have faced when filtering category on the base of slug then i filter with name in place of slug.
- 3- Secondly I have a challenge in implementing pagination in dynamic route of product detail.
- 4- At the end the outcome achieve from the 4th day is product listing, product detail dynamic route, category component and add to cart component and page.