

## Introduction

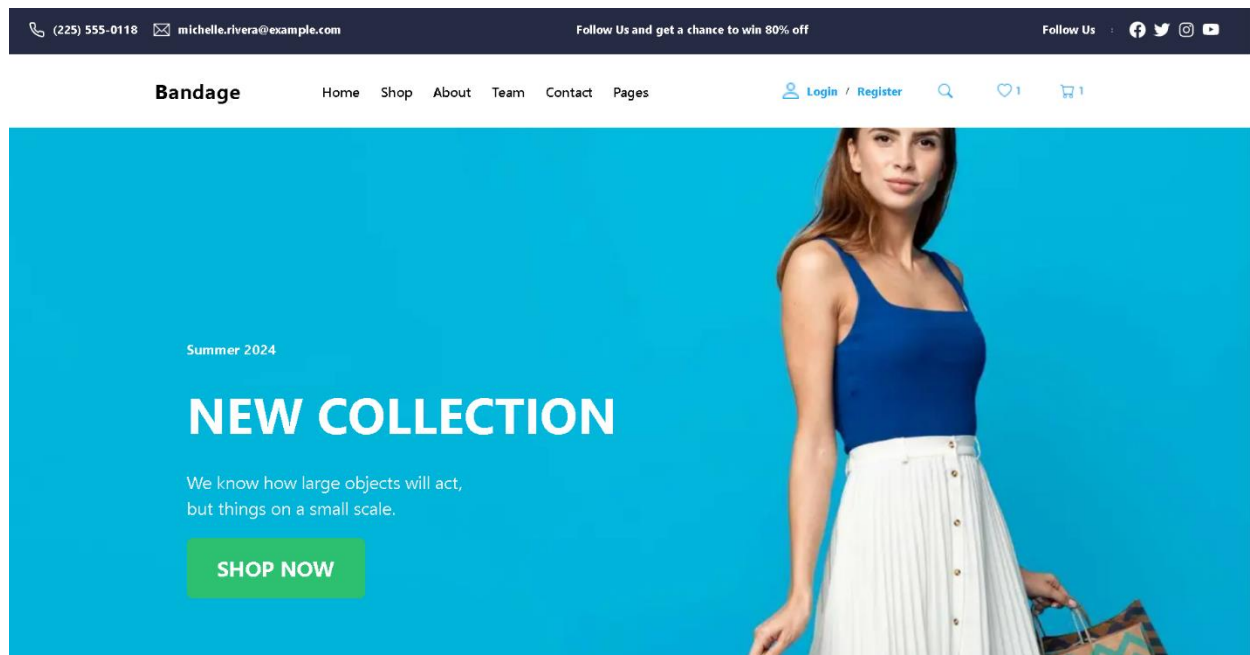
The website Hacthon2 is an online marketplace featuring products categorized for user convenience. The platform provides functionalities such as product listings, product details, cart management, and notifications, ensuring a smooth shopping experience.

This report outlines the key frontend components implemented in the project and specifies where each provided snippet should be integrated within the codebase.

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## Frontend Components & Snippet Integration

### 1. Navbar

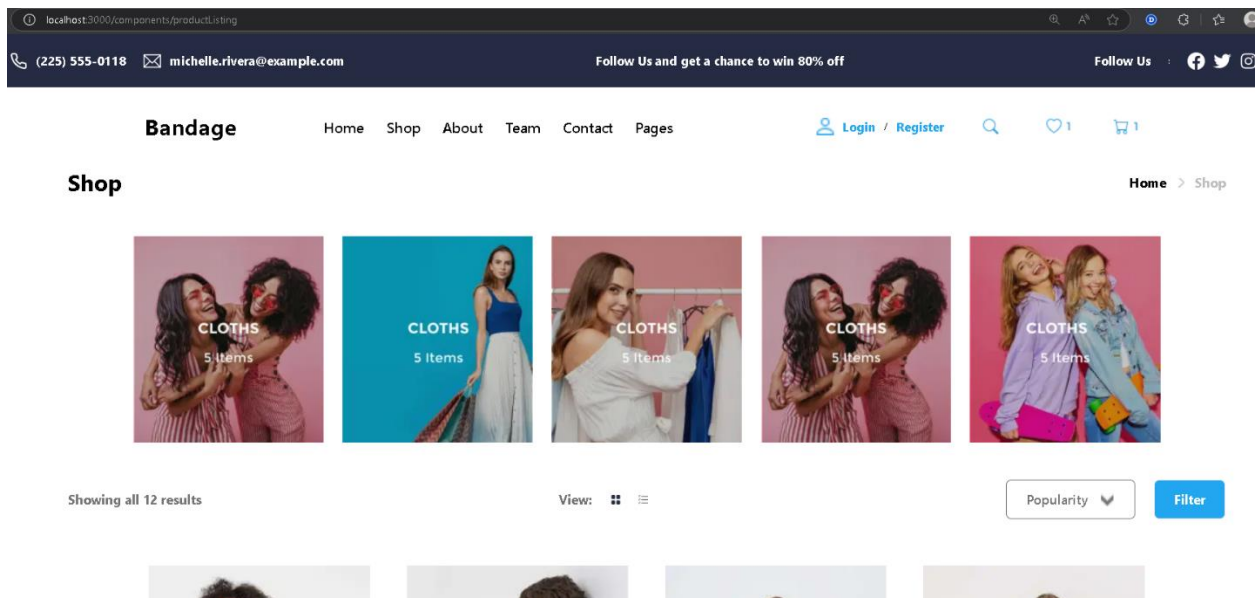


The Navbar component provides site-wide navigation.

Snippet to attach: Navbar

Location: Should be placed inside App.js or the Layout component to ensure it appears on all pages.

## 2. Categories



This component displays the product categories.

Snippet to attach: Categories

Location: Used in the homepage and product listing page for filtering products.

### 3. Categories Code

```

@babel/core
@babel/preset-react
my-app /src/app/components/productListing / @ pagejs/...
+ myApp
25 export default function ProductPage() {
26   let products = [
27     {
28       id: 1,
29       name: 'graphic design',
30       category: 'english department',
31       originalPrice: 16.48,
32       salePrice: 6.48,
33     },
34     {
35       id: 2,
36       name: 'graphic design',
37       category: 'english department',
38       originalPrice: 16.48,
39       salePrice: 6.48,
40     },
41     {
42       id: 3,
43       name: 'graphic design',
44       category: 'english department',
45       originalPrice: 16.48,
46       salePrice: 6.48,
47     },
48     {
49       id: 4,
50       name: 'graphic design',
51       category: 'english department',
52       originalPrice: 16.48,
53       salePrice: 6.48,
54     },
55     {
56       id: 5,
57       name: 'graphic design',
58       category: 'english department',
59       originalPrice: 16.48,
60       salePrice: 6.48,
61     },
62     {
63       id: 6,
64       name: 'graphic design',
65       category: 'english department',
66       originalPrice: 16.48,
67       salePrice: 6.48,
68     },
69     {
70       id: 7,
71       name: 'graphic design',
72       category: 'english department',
73       originalPrice: 16.48,
74       salePrice: 6.48,
75     },
76     {
77       id: 8,
78       name: 'graphic design',
79       category: 'english department',
80       originalPrice: 16.48,
81       salePrice: 6.48,
82     },
83     {
84       id: 9,
85       name: 'graphic design',
86       category: 'english department',
87       originalPrice: 16.48,
88       salePrice: 6.48,
89     },
90     {
91       id: 10,
92       name: 'graphic design',
93       category: 'english department',
94       originalPrice: 16.48,
95       salePrice: 6.48,
96     },
97     {
98       id: 11,
99       name: 'graphic design',
100      category: 'english department',
101      originalPrice: 16.48,
102      salePrice: 6.48,
103     },
104     {
105       id: 12,
106       name: 'graphic design',
107       category: 'english department',
108       originalPrice: 16.48,
109       salePrice: 6.48,
110     },
111     {
112       id: 13,
113       name: 'graphic design',
114       category: 'english department',
115       originalPrice: 16.48,
116       salePrice: 6.48,
117     },
118     {
119       id: 14,
120       name: 'graphic design',
121       category: 'english department',
122       originalPrice: 16.48,
123       salePrice: 6.48,
124     },
125     {
126       id: 15,
127       name: 'graphic design',
128       category: 'english department',
129       originalPrice: 16.48,
130       salePrice: 6.48,
131     },
132     {
133       id: 16,
134       name: 'graphic design',
135       category: 'english department',
136       originalPrice: 16.48,
137       salePrice: 6.48,
138     },
139     {
140       id: 17,
141       name: 'graphic design',
142       category: 'english department',
143       originalPrice: 16.48,
144       salePrice: 6.48,
145     },
146     {
147       id: 18,
148       name: 'graphic design',
149       category: 'english department',
150       originalPrice: 16.48,
151       salePrice: 6.48,
152     },
153     {
154       id: 19,
155       name: 'graphic design',
156       category: 'english department',
157       originalPrice: 16.48,
158       salePrice: 6.48,
159     },
160     {
161       id: 20,
162       name: 'graphic design',
163       category: 'english department',
164       originalPrice: 16.48,
165       salePrice: 6.48,
166     },
167     {
168       id: 21,
169       name: 'graphic design',
170       category: 'english department',
171       originalPrice: 16.48,
172       salePrice: 6.48,
173     },
174     {
175       id: 22,
176       name: 'graphic design',
177       category: 'english department',
178       originalPrice: 16.48,
179       salePrice: 6.48,
180     },
181     {
182       id: 23,
183       name: 'graphic design',
184       category: 'english department',
185       originalPrice: 16.48,
186       salePrice: 6.48,
187     },
188     {
189       id: 24,
190       name: 'graphic design',
191       category: 'english department',
192       originalPrice: 16.48,
193       salePrice: 6.48,
194     },
195     {
196       id: 25,
197       name: 'graphic design',
198       category: 'english department',
199       originalPrice: 16.48,
200       salePrice: 6.48,
201     },
202     {
203       id: 26,
204       name: 'graphic design',
205       category: 'english department',
206       originalPrice: 16.48,
207       salePrice: 6.48,
208     },
209     {
210       id: 27,
211       name: 'graphic design',
212       category: 'english department',
213       originalPrice: 16.48,
214       salePrice: 6.48,
215     },
216     {
217       id: 28,
218       name: 'graphic design',
219       category: 'english department',
220       originalPrice: 16.48,
221       salePrice: 6.48,
222     },
223     {
224       id: 29,
225       name: 'graphic design',
226       category: 'english department',
227       originalPrice: 16.48,
228       salePrice: 6.48,
229     },
230     {
231       id: 30,
232       name: 'graphic design',
233       category: 'english department',
234       originalPrice: 16.48,
235       salePrice: 6.48,
236     },
237     {
238       id: 31,
239       name: 'graphic design',
240       category: 'english department',
241       originalPrice: 16.48,
242       salePrice: 6.48,
243     },
244     {
245       id: 32,
246       name: 'graphic design',
247       category: 'english department',
248       originalPrice: 16.48,
249       salePrice: 6.48,
250     },
251     {
252       id: 33,
253       name: 'graphic design',
254       category: 'english department',
255       originalPrice: 16.48,
256       salePrice: 6.48,
257     },
258     {
259       id: 34,
260       name: 'graphic design',
261       category: 'english department',
262       originalPrice: 16.48,
263       salePrice: 6.48,
264     },
265     {
266       id: 35,
267       name: 'graphic design',
268       category: 'english department',
269       originalPrice: 16.48,
270       salePrice: 6.48,
271     },
272     {
273       id: 36,
274       name: 'graphic design',
275       category: 'english department',
276       originalPrice: 16.48,
277       salePrice: 6.48,
278     },
279     {
280       id: 37,
281       name: 'graphic design',
282       category: 'english department',
283       originalPrice: 16.48,
284       salePrice: 6.48,
285     },
286     {
287       id: 38,
288       name: 'graphic design',
289       category: 'english department',
290       originalPrice: 16.48,
291       salePrice: 6.48,
292     },
293     {
294       id: 39,
295       name: 'graphic design',
296       category: 'english department',
297       originalPrice: 16.48,
298       salePrice: 6.48,
299     },
300     {
301       id: 40,
302       name: 'graphic design',
303       category: 'english department',
304       originalPrice: 16.48,
305       salePrice: 6.48,
306     },
307     {
308       id: 41,
309       name: 'graphic design',
310       category: 'english department',
311       originalPrice: 16.48,
312       salePrice: 6.48,
313     },
314     {
315       id: 42,
316       name: 'graphic design',
317       category: 'english department',
318       originalPrice: 16.48,
319       salePrice: 6.48,
320     },
321     {
322       id: 43,
323       name: 'graphic design',
324       category: 'english department',
325       originalPrice: 16.48,
326       salePrice: 6.48,
327     },
328     {
329       id: 44,
330       name: 'graphic design',
331       category: 'english department',
332       originalPrice: 16.48,
333       salePrice: 6.48,
334     },
335     {
336       id: 45,
337       name: 'graphic design',
338       category: 'english department',
339       originalPrice: 16.48,
340       salePrice: 6.48,
341     },
342     {
343       id: 46,
344       name: 'graphic design',
345       category: 'english department',
346       originalPrice: 16.48,
347       salePrice: 6.48,
348     },
349     {
350       id: 47,
351       name: 'graphic design',
352       category: 'english department',
353       originalPrice: 16.48,
354       salePrice: 6.48,
355     },
356     {
357       id: 48,
358       name: 'graphic design',
359       category: 'english department',
360       originalPrice: 16.48,
361       salePrice: 6.48,
362     },
363     {
364       id: 49,
365       name: 'graphic design',
366       category: 'english department',
367       originalPrice: 16.48,
368       salePrice: 6.48,
369     },
370     {
371       id: 50,
372       name: 'graphic design',
373       category: 'english department',
374       originalPrice: 16.48,
375       salePrice: 6.48,
376     },
377     {
378       id: 51,
379       name: 'graphic design',
380       category: 'english department',
381       originalPrice: 16.48,
382       salePrice: 6.48,
383     },
384     {
385       id: 52,
386       name: 'graphic design',
387       category: 'english department',
388       originalPrice: 16.48,
389       salePrice: 6.48,
390     },
391     {
392       id: 53,
393       name: 'graphic design',
394       category: 'english department',
395       originalPrice: 16.48,
396       salePrice: 6.48,
397     },
398     {
399       id: 54,
400       name: 'graphic design',
401       category: 'english department',
402       originalPrice: 16.48,
403       salePrice: 6.48,
404     },
405     {
406       id: 55,
407       name: 'graphic design',
408       category: 'english department',
409       originalPrice: 16.48,
410       salePrice: 6.48,
411     },
412     {
413       id: 56,
414       name: 'graphic design',
415       category: 'english department',
416       originalPrice: 16.48,
417      
```

Contains logic to dynamically fetch and display categories.

Snippet to attach: Categories code

Location: Inside the Categories component.

#### 4. React Hooks (useEffect, useState, etc.)

```

my-app > src > app > products > page.tsx > ProductCards
1  "use client"
2  import React, { useEffect, useState } from "react"
3  import sanityClient, { createClient } from "@sanity/client"
4  import Image from "next/image"
5  import { apiVersion, dataset, projectId } from "@sanity/env"
6
7  const sanity = createClient({
8    projectId: "zgfi09um",
9    dataset: "production",
10    apiVersion: "2023-01-01",
11    useCdn: true,

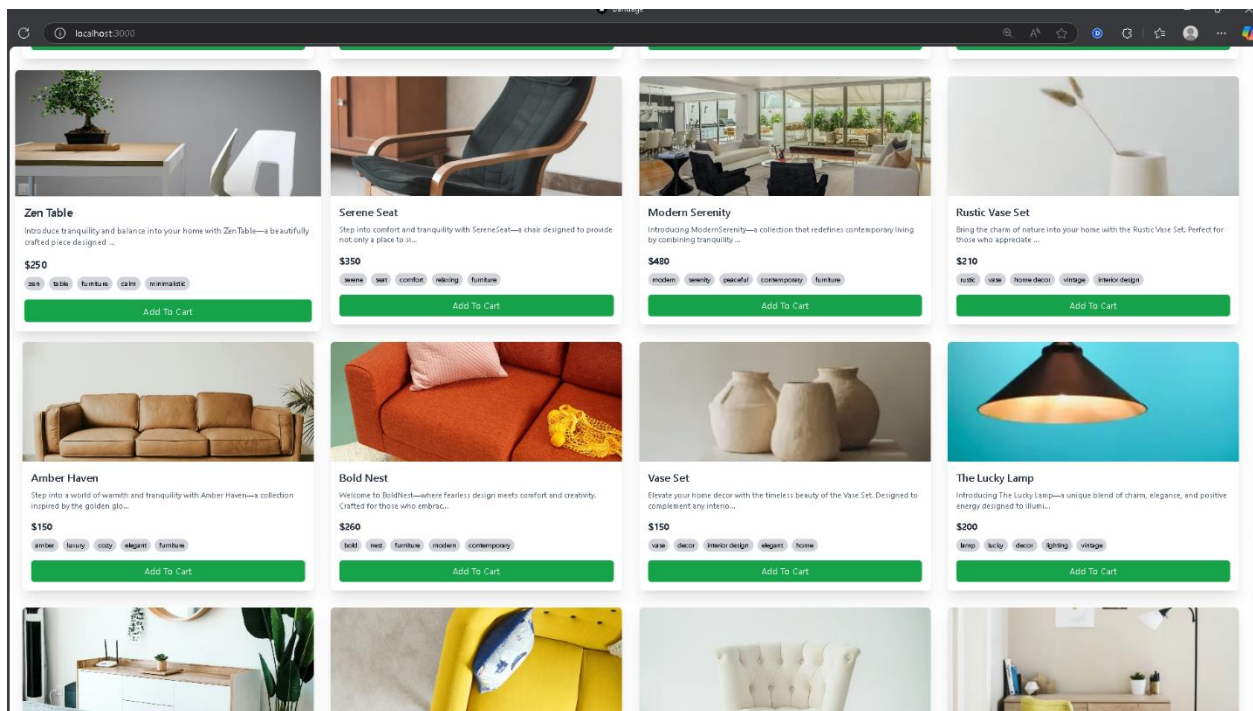
```

This snippet includes hooks used for state management and API requests.

Snippet to attach: ReactHooks

Location: Across multiple components such as Products listing, Cart, and Notifications.

## 5. Products Listing

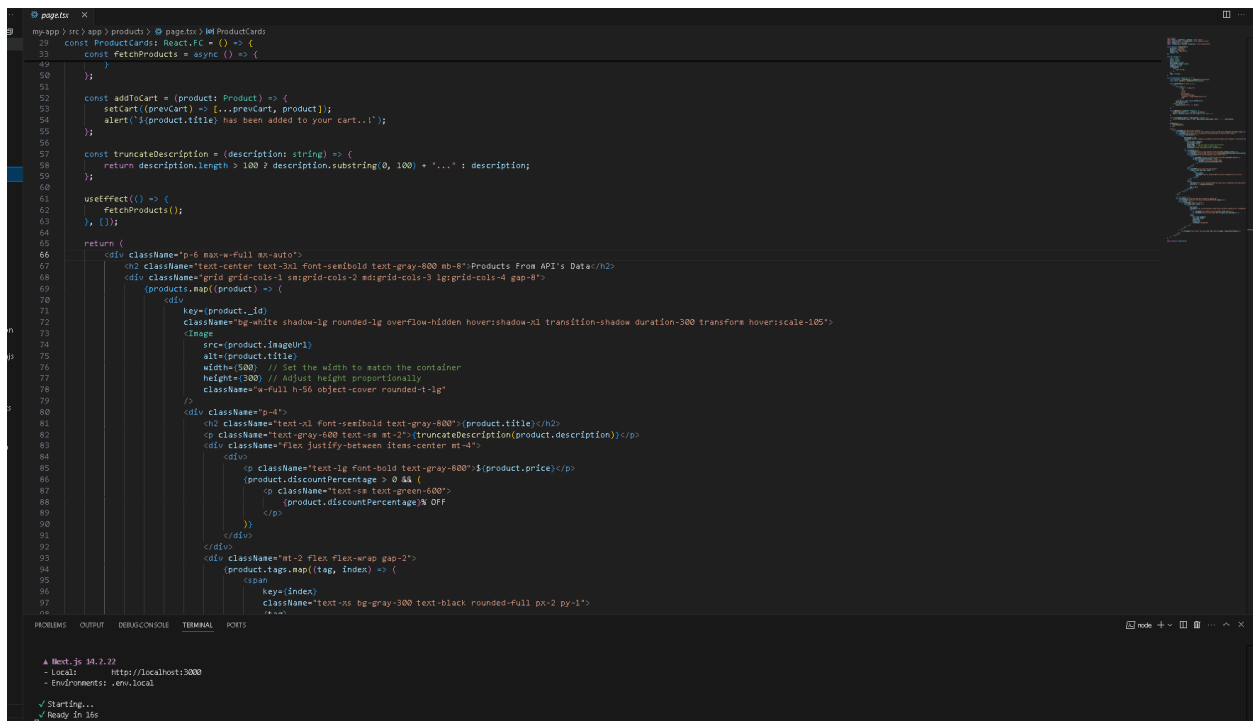


Displays all available products on the homepage and category pages.

Snippet to attach: Products listing

Location: Used in Home.js or a dedicated Products.js page.

## 6. Product Listing Code



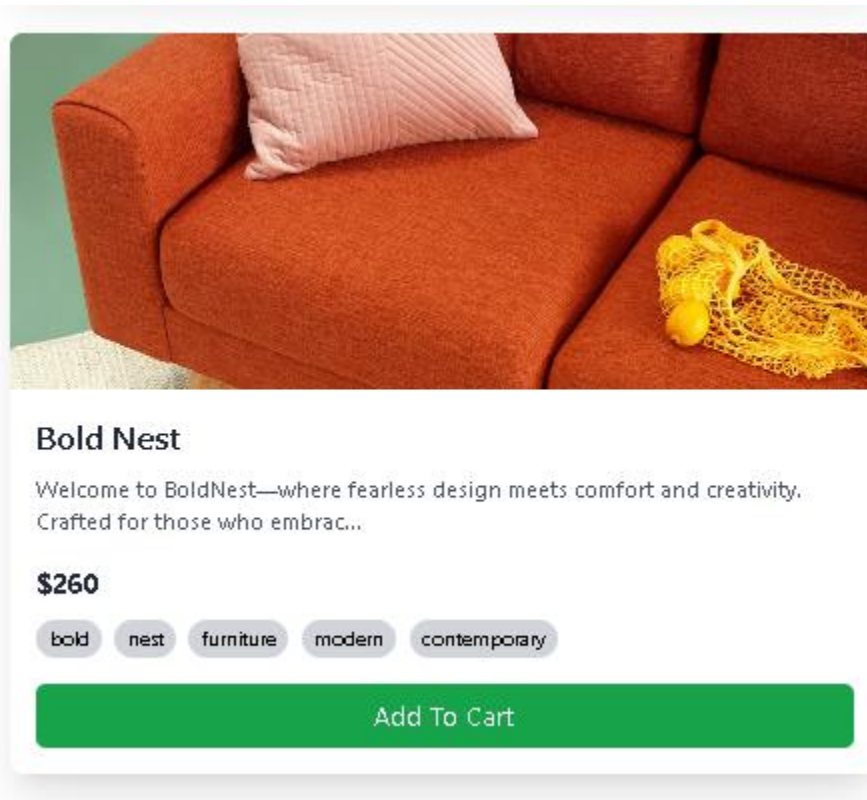
```
my-app > src > app > products > @pageidx > ProductCards
27 const ProductCards: React.FC = () => {
31   const fetchProducts = async () => {
32     // ...
33   }
34 }
35
36 const addToCart = (product: Product) => {
37   setCart((prevCart) => [...prevCart, product]);
38   alert(`${product.title} has been added to your cart...!`);
39 }
40
41 const truncateDescription = (description: string) => {
42   return description.length > 100 ? description.substring(0, 100) + '...' : description;
43 }
44
45 useEffect(() => {
46   fetchProducts();
47 }, []);
48
49 return (
50   <div className="p-6 max-w-full mx-auto">
51     <h2 className="text-center text-3xl font-sans font-weight-bold text-gray-800 mb-8">Products from API's Data</h2>
52     <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-8">
53       {products.map((product) => (
54         <div
55           key={product.id}
56           className="bg-white shadow-lg rounded-lg overflow-hidden hover:shadow-xl transition-shadow duration-300 transform hover:scale-105">
57           <img
58             src={product.imageUrl}
59             alt={product.title}
60             width={300} // Set the width to match the container
61             height={200} // Adjust height proportionally
62             className="w-full h-56 object-cover rounded-t-lg">
63           </div>
64           <div className="p-4">
65             <h3 className="text-xl font-sans font-weight-bold text-gray-800">{product.title}</h3>
66             <p className="text-gray-600 text-sm mt-2">{truncateDescription(product.description)}</p>
67             <div className="flex justify-between items-center mt-4">
68               <div>
69                 <p className="text-lg font-weight-bold text-gray-800">{product.price}</p>
70                 <p>
71                   {product.discountPercentage > 0 && (
72                     <p className="text-sm text-green-600">
73                       {product.discountPercentage}% OFF
74                     )}
75                 </p>
76               </div>
77             </div>
78             <div className="mt-2 flex flex-wrap gap-2">
79               {product.tags.map((tag, index) => (
80                 <span
81                   key={index}
82                   className="text-sm bg-gray-300 text-black rounded-full px-2 py-1">
83                     {tag}
84                   </span>
85               ))}
86             </div>
87           </div>
88         </div>
89       ))}
90     </div>
91   </div>
92 )
93 }
```

Fetches and structures product data dynamically.

Snippet to attach: Product listing code

Location: Inside the Products listing component.

## 7. Product



Represents an individual product displayed in the listing.

Snippet to attach: Product

Location: Used inside Products listing as a reusable component.

## 8. Product Code

```

    </div>
    <div className="mt-2 flex flex-wrap gap-2">
      {product.tags.map((tag, index) => (
        <span
          key={index}
          className="text-xs bg-gray-300 text-black rounded-full px-2 py-1">
            {tag}
          </span>
        </div>
      </div>
    <button
      className="mt-4 w-full bg-green-600 text-white py-2 rounded-md hover:bg-green-700"
      onClick={() => addToCart(product)}>
      Add To Cart
    </button>
  </div>
</div>
))}
</div>

/* Cart Summary */
<div className="mt-8 bg-gray-100 p-6 rounded-lg shadow-lg">
  <h2 className="text-2xl font-bold text-gray-800">Cart Summary</h2>
  {cart.length > 0 ? (
    <ul className="space-y-4 mt-4">
      {cart.map((item, index) => (
        <li
          key={index}
          className="flex justify-between items-center bg-white shadow-sm p-4 rounded-md">

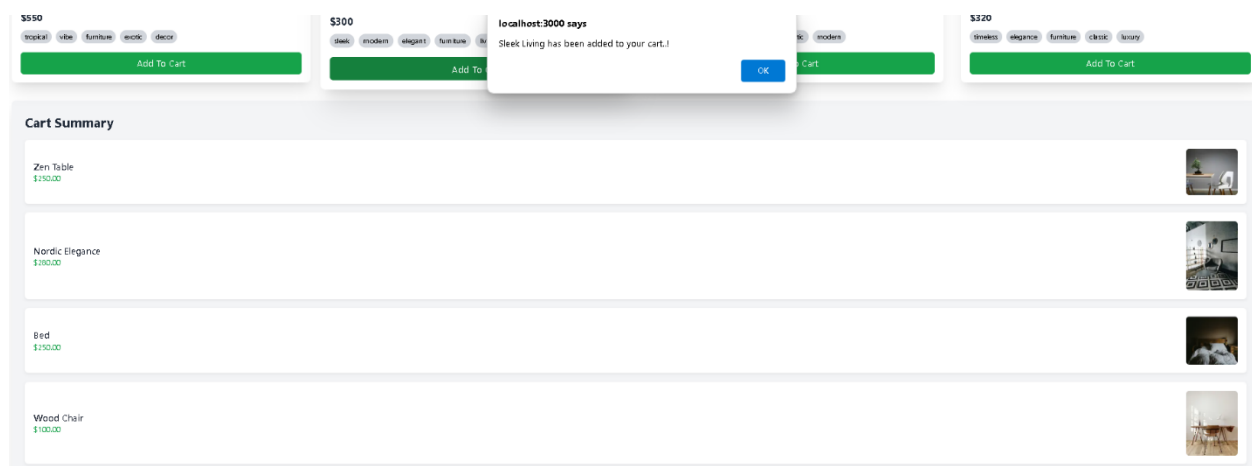
```

Contains logic for displaying individual product details.

Snippet to attach: Product code

Location: Inside the Product component.

## 9. Cart



Manages and displays items added by users.

Snippet to attach: Cart

Location: Implemented in a Cart.js page or a sidebar component.

## 10. Notification



Displays messages such as “Item added to cart.”

Snippet to attach: Notification

Location: Used globally in App.js or as a Toast component.

## 11. Notification Code



```
page.tsx x
my-app > src > app > products > page.tsx > ProductCards
29 const ProductCards: React.FC = () => {
33   const fetchProducts = async () => {
35     const query =
44       ``;
45     const data = await sanity.fetch(query);
46     setProducts(data);
47   } catch (error) {
48     console.error("Error..!", error);
49   }
50 };
51
52 const addToCart = (product: Product) => {
53   setCart((prevCart) => [...prevCart, product]);
54   alert(`${product.title} has been added to your cart..!`);
55 };
56
57 const truncateDescription = (description: string) => {
58   return description.length > 100 ? description.substring(0, 100) + "...": description;
59 };
60
61 useEffect(() => {
62   fetchProducts();
63 }, []);
```

Contains logic to handle different types of notifications.

Snippet to attach: Notification code

Location: Inside the Notification component.

---

Pages Overview

# 1. Homepage

Displays the product listing with categories and a search bar.

Uses Navbar, Categories, Products listing, and Notification.

## 2. Product Detail Page

Displays a single product's information.

Uses Product and Product code.

## 3. Cart Page

Shows items added by users.

Uses Cart and Notification.

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## Conclusion

This report provides the necessary integration points for each snippet in the project. Following these placements will ensure that the website functions smoothly with a modular and maintainable codebase.