



“Hackathon Day 4 ”

Building Dynamic Components For:



AVION



Homepage: The First Impression



The homepage serves as the primary entry point for users, providing an immersive experience that showcases essential features and sets the tone for a fantastic journey. To achieve this, I implemented a seamless integration with Third-Party APIs, leveraging the power of Sanity's Content Platform.



Data Fetching with Sanity and GROQ Query:

To fetch data from Sanity, I utilized GROQ (Graph Relational Object Query), a powerful query language that allows for efficient data retrieval. By crafting specific GROQ queries, I was able to retrieve targeted data, optimizing performance and reducing latency.

GROQ Query for Ceramics Products:

To retrieve only 4 products data for ceramics Component, I used the following GROQ query:

```
const query = `*[_type == "product"][16..19]{
  name,
  "slug":slug.current,
  "category": category->name,
  image,
  price,
  quantity,
  🌟tags,
  description,
};`;
```

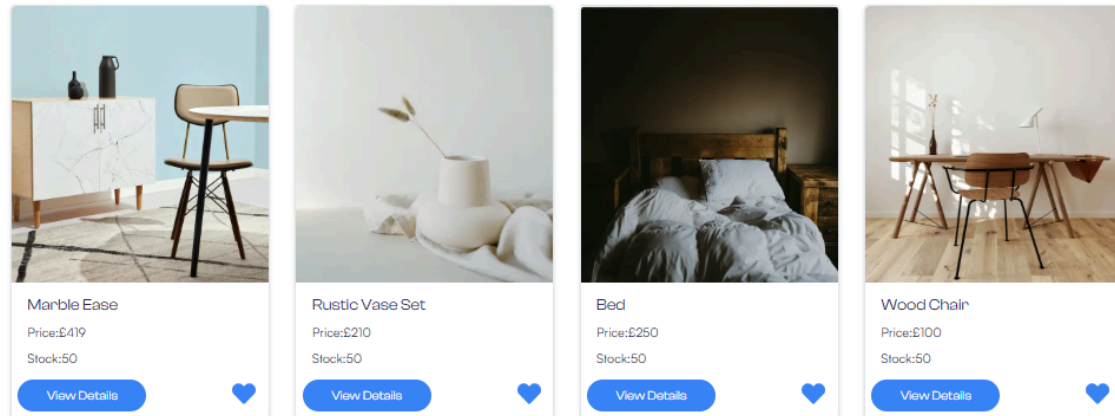
This query:

1. Filters documents of type "product"

```
(*[_type == "product"][16..19]).
```

2. Takes only the 4 results (take(4)).
3. Retrieves only the data of required fields from the resulting documents.

New Ceramics



GROQ Query for Popular Products

To retrieve only 4 products data for popular products Component, I used the following GROQ query:

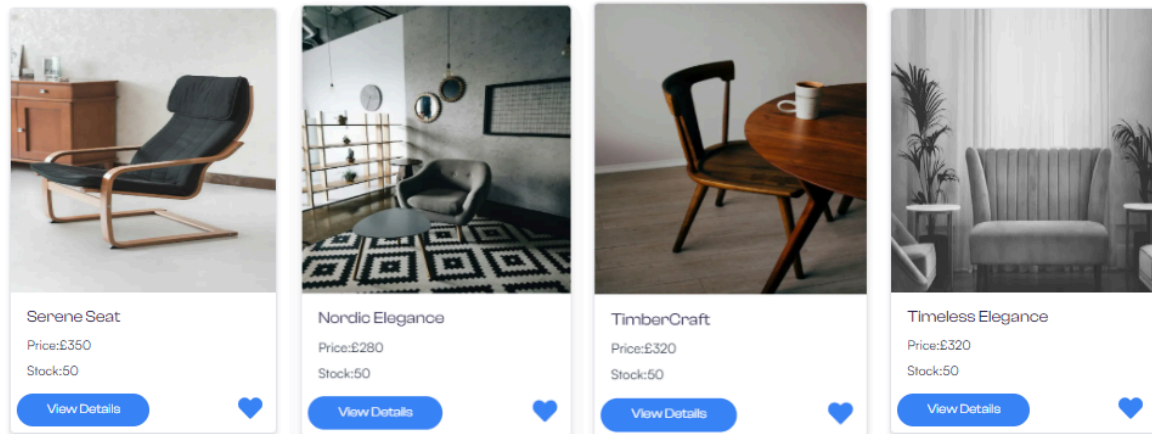
```
const query = `*[_type == "product"][3..6]{
  name,
  "slug":slug.current,
  "category": category->title,
  image,
  price,
  quantity,
  💡tags,
  description,
};`;
```

This query:

1. Filters documents of type "product" with a popularity (*[_type == "product"][3..6]).
2. Takes only the first 4 results (take(4)).
3. Retrieves only the data of required fields from the resulting documents.

By leveraging Sanity's GROQ queries and indexing, I was able to efficiently retrieve targeted data, ensuring a seamless user experience on the homepage.

Our Popular Products



Product Listing via API Integration: Seamless Data Fetching

I successfully integrated an external API to fetch product data, mapping the response to a user-friendly format. With GROQ Curry, I displayed the product listing page, making it easy for users to browse and discover new products.

GROQ Query for All Products:

To retrieve All products data for Product Listing Page , I used the following GROQ query:

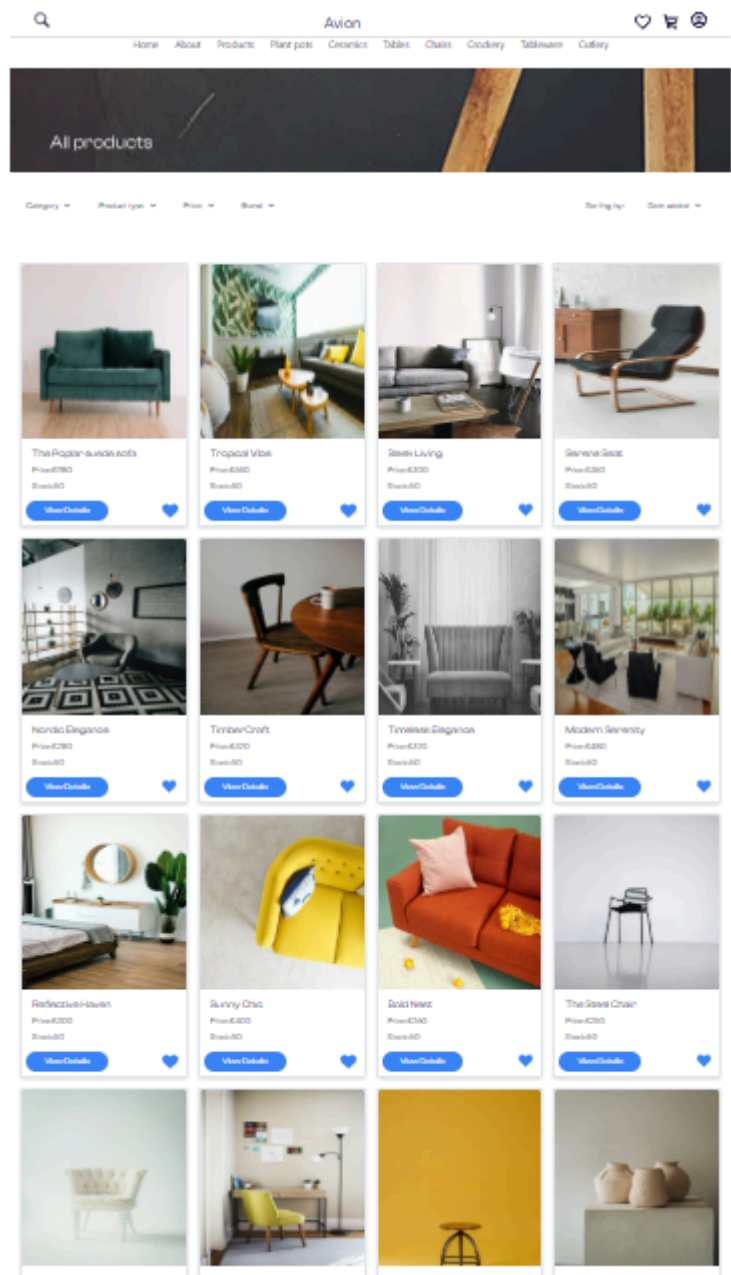
```
// GROQ query to fetch all products
const query = `*[_type == "product"]{
  name,
  "slug":slug.current,
  "category": category->name, // Assuming category has a "name" field
  image,
  price,
  quantity,
  tags,
  description,
  features,
};`;
```

1. Get All Products of type "product".

```
(*[_type == "product"]).
```

2. Take All the Data results .

3. Retrieves All data Of Products from the resulting documents.



🔒 **Pagination / Dynamic Routing:** **Effortless Navigation** 📌

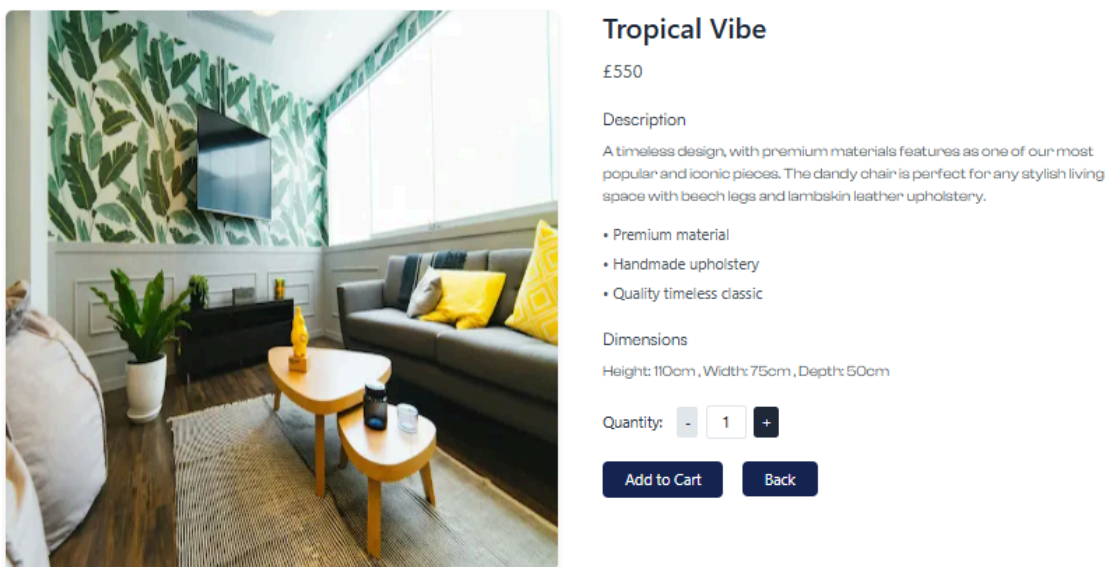
To tackle large product lists, I implemented pagination, allowing users to navigate through the list with ease. I also introduced dynamic routing, enabling users to seamlessly transition to product details pages and explore further.

GROQ Query for Dynamic Products details:

To retrieve only details of Specific Product , I used the following GROQ query:

```
// Fetch product data by slug
const query = `*[_type == "product" && slug.current == $slug][0]{
  name,
  "slug": slug.current,
  "image": image.asset->url,
  price,
  description,
  features,
  dimensions
}`;
```

Retrieves All Details Of a Product from the resulting documents.



Search Bar Functionality :

Overview

Our search bar functionality allows users to quickly and easily find products on our website.

Step 1: Activating the Search Bar

 When the user clicks on the search icon , the search bar will be displayed.

Step 2: Searching for Products

👉 When the user types any alphabetical letter in the search bar, a list of products will appear. The list will include the product name , Product Price , Product Image and a "Details" button 📊.

Step 3: Viewing Product Details 📄

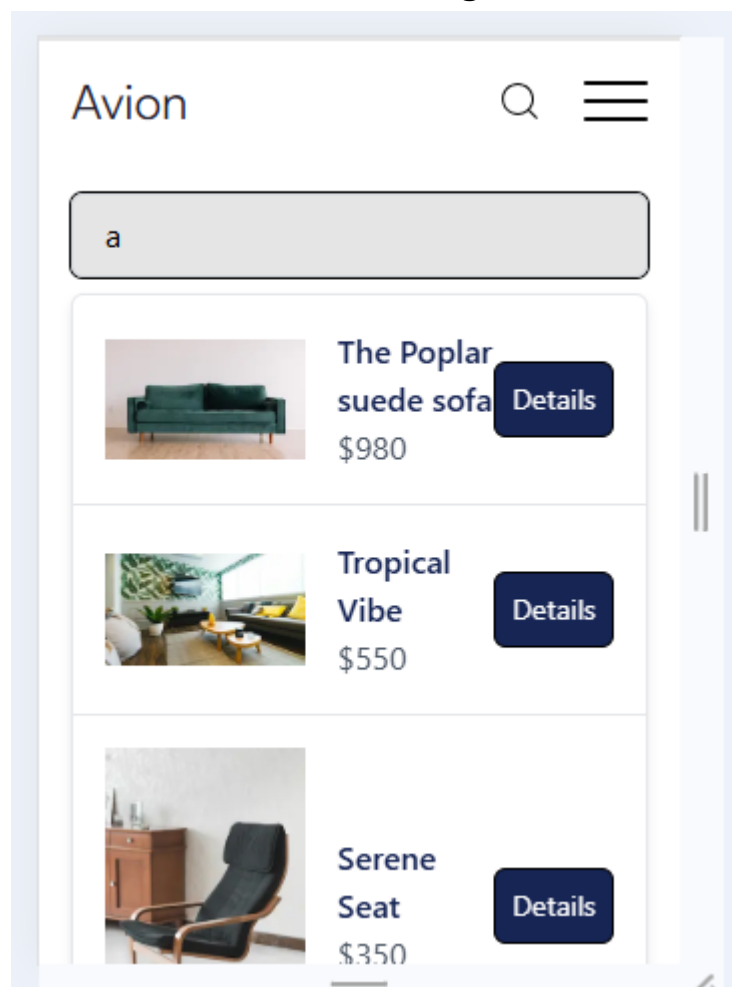
👉 When the user clicks on the "Details" button, a detailed page will be dynamically displayed. This page will include additional product information and allow the user to:

🛒 Add the product to their cart and Manage Quan

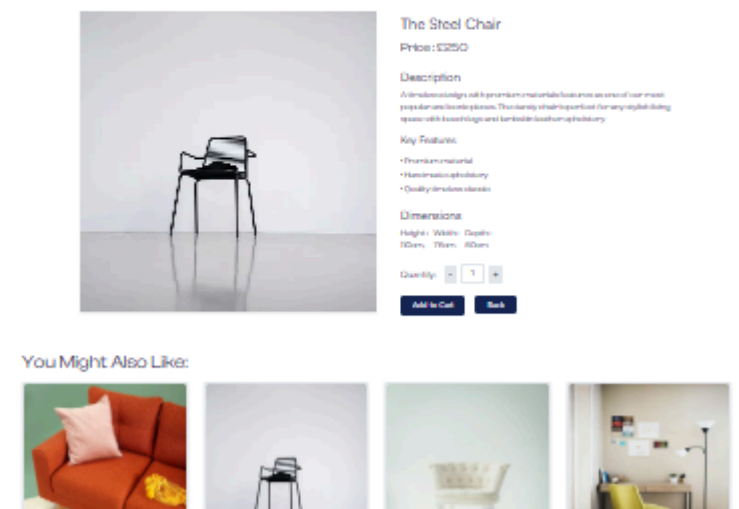
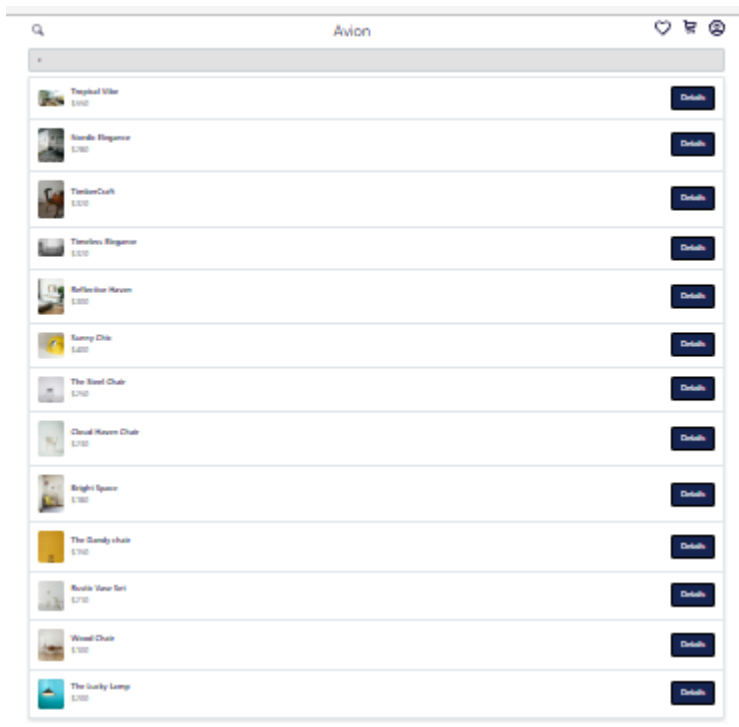
Benefits ☀️

Our search bar functionality provides a seamless and intuitive user experience, making it easy for customers to find what they're looking for.

Mobile View For Searching items:



LapTop View:



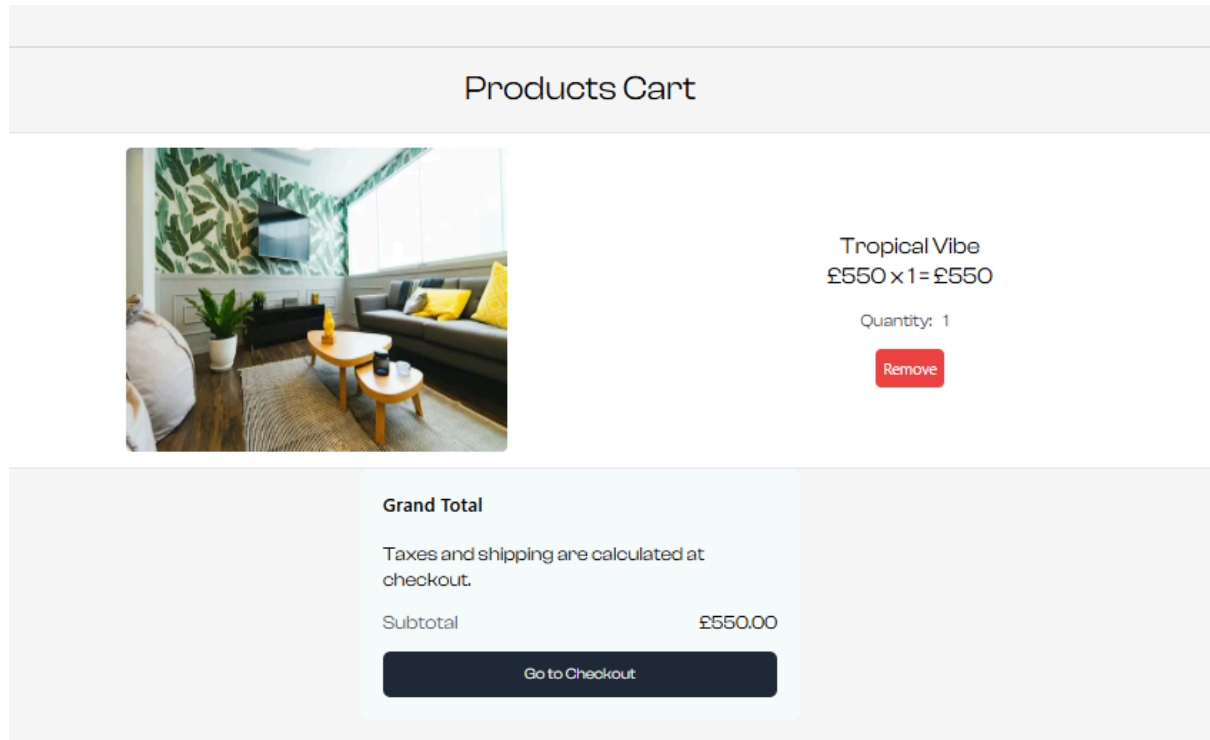
Cart Management And Checkout: A Smooth Shopping Experience 🛒

Seamless Checkout Experience

To ensure a hassle-free checkout process, I incorporated several intuitive features on the cart page. These features provide users with a seamless and user-friendly experience, making it easy for them to complete their purchases.

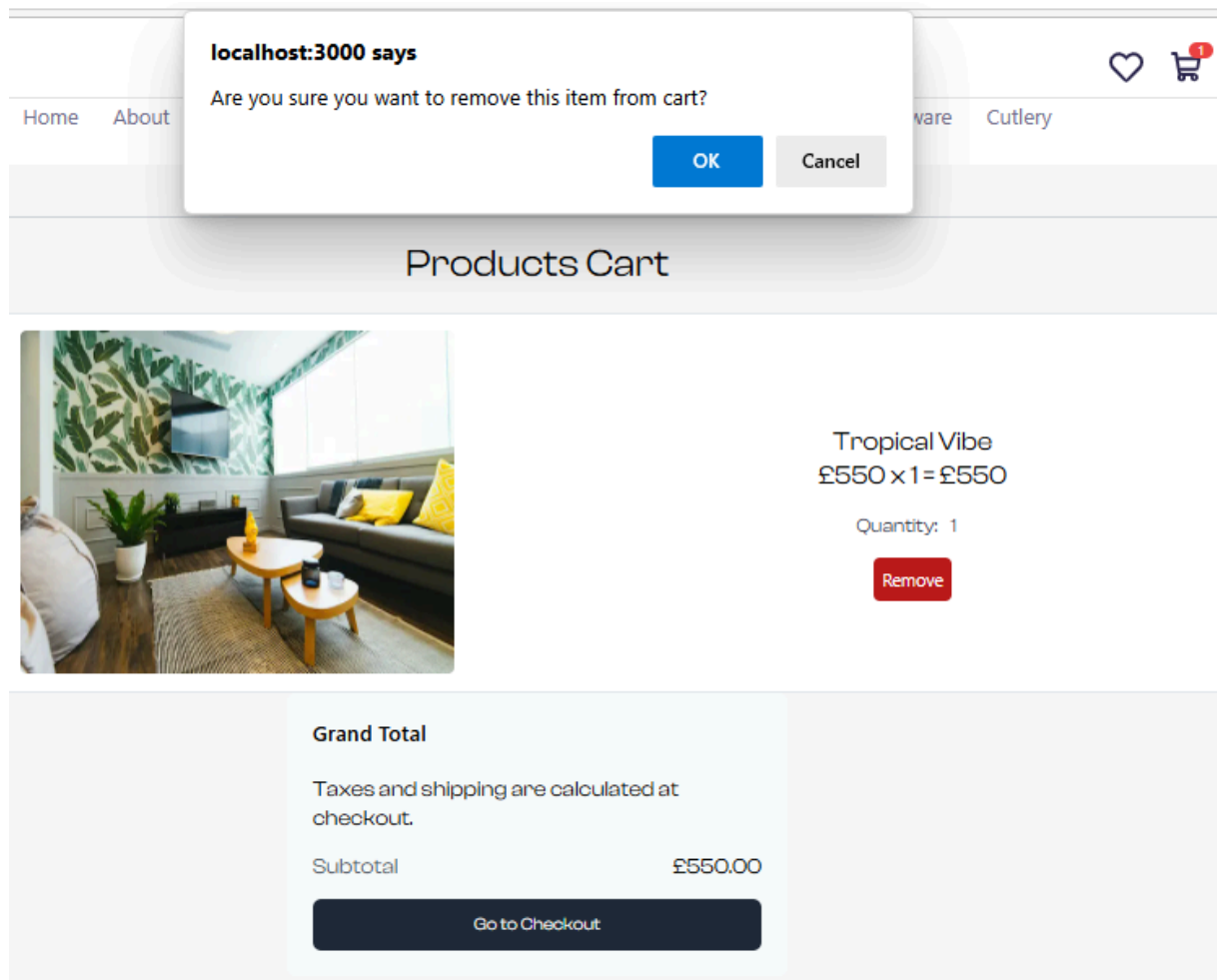
Remove Button with Confirmation Alert

When a user clicks the remove button, a confirmation alert appears to ensure they intend to remove the item from their cart. This alert prompts the user to confirm their action, preventing accidental removals.



Checkout Button with Confirmation Alert

Similarly, when the checkout button is clicked, another confirmation alert appears to confirm the user's intention to proceed with the checkout process. This additional layer of confirmation ensures users are fully committed to completing their purchase.



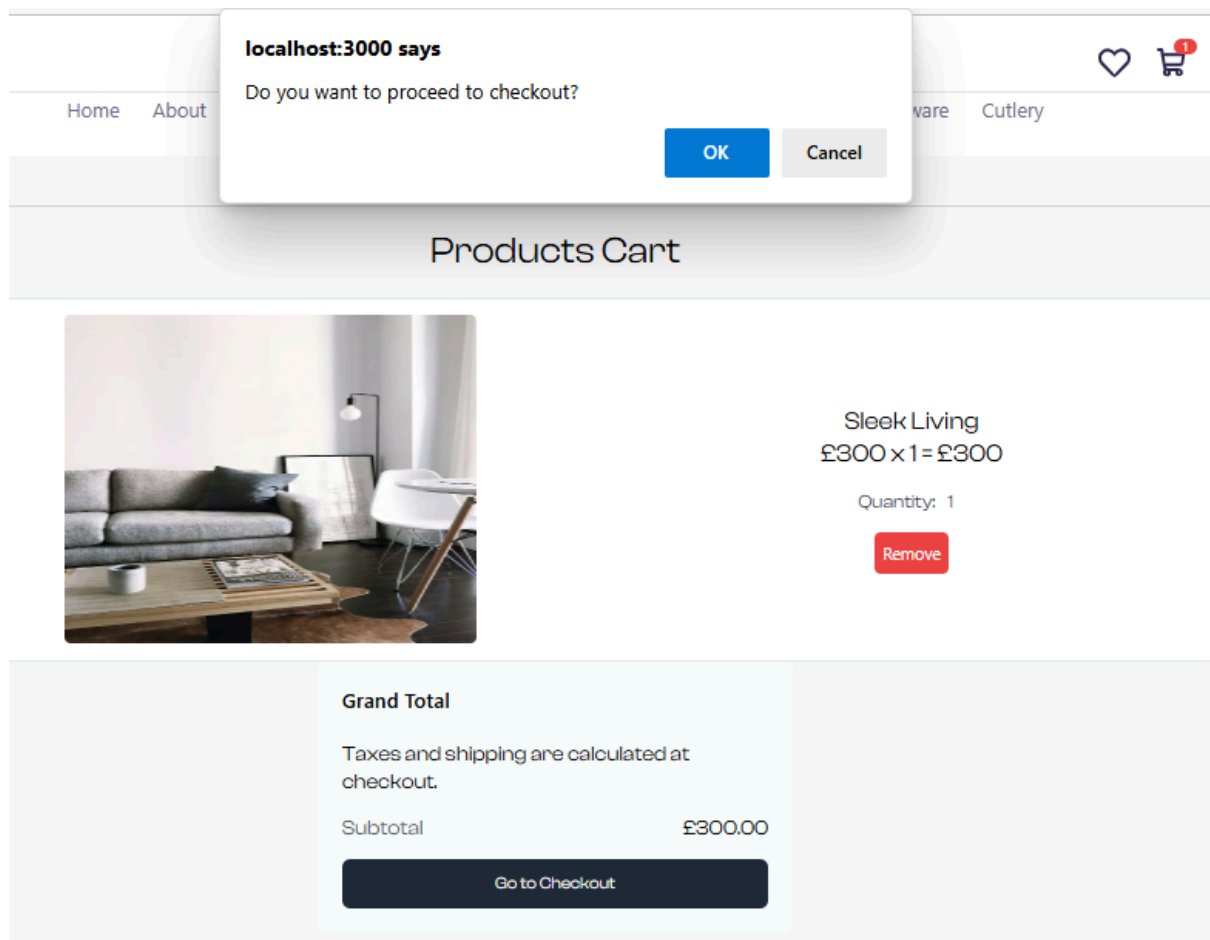
Conditional Checkout Outcome

Based on the user's response to the confirmation alert:

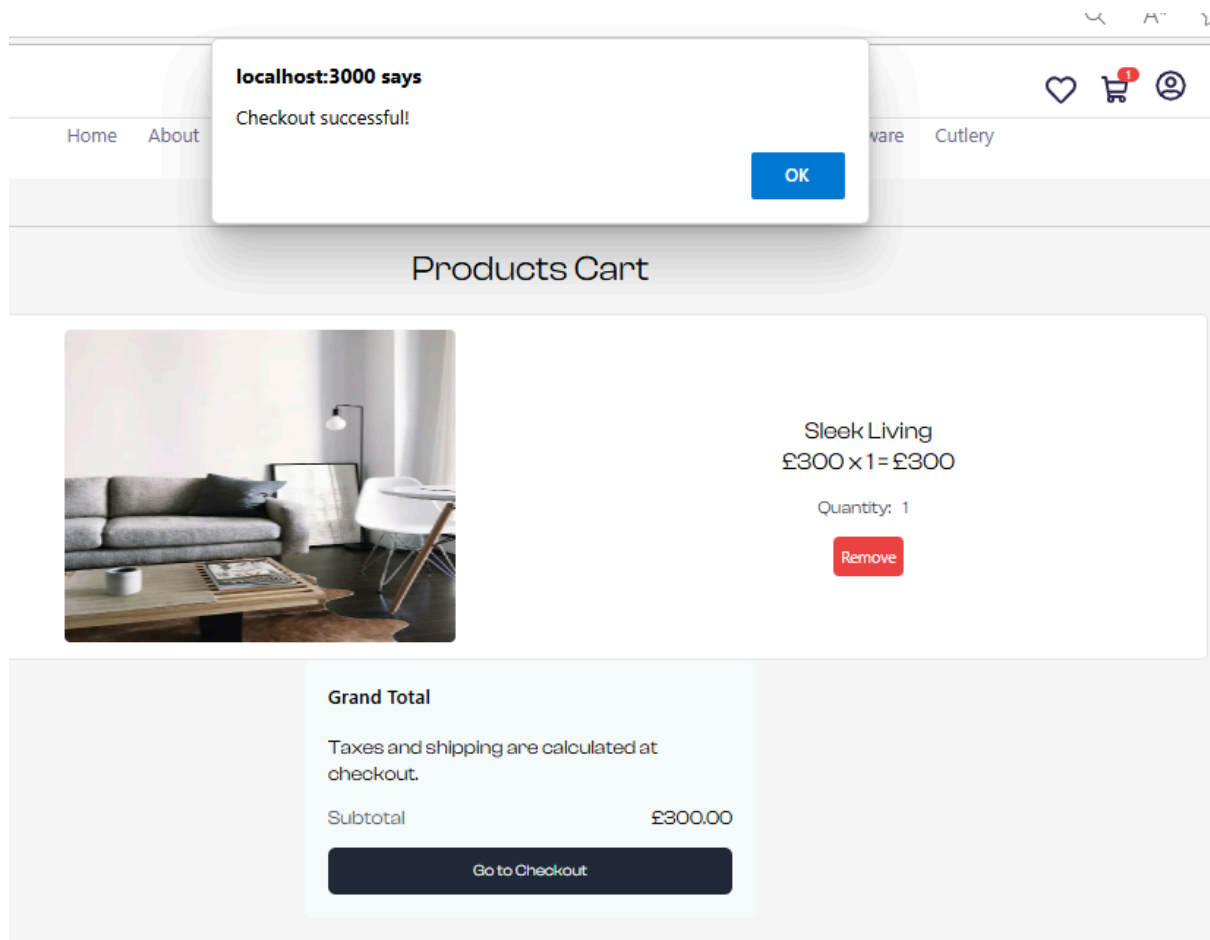
- If the user confirms, the checkOut successfully.

Then Navigate to CheckOut Page

- If the user cancels, the checkout cancelled.



These intuitive features provide a seamless and user-friendly checkout experience, reducing friction and ensuring a higher conversion rate.



Checkout

Name

Email

Phone

Card Details

[Pay Now](#)

Conclusion: A Job Well Done 🎉

In summary, I successfully designed and developed dynamic frontend components for Avion, including product listing, pagination, dynamic routing, and cart management. These features provide a seamless, user-friendly experience, making it easy for customers to explore and shop on the platform 👍💻.