

# DAY 4: IMPLEMENTATION Report

## "Marketplace Technical Foundation- [Avion-General E-commerce]"

### Introduction:

According to my hackathon template # 02 The name "Avion" for my e-commerce website could fit into multiple categories depending on my business model.

Here's why:

**Q-Commerce (Quick Commerce):** This refers to the rapid delivery of products, typically within a very short time frame (e.g., within an hour).

However, if I plan to offer a broader selection of products with standard delivery times, **E-Commerce (Electronic Commerce)** would still be a suitable classification.

If I'm focusing on renting products, then it would lean toward **Rental E-Commerce**.

To summarize:

- **Q-Commerce:** If fast deliveries (within hours) are key.
- **E-Commerce:** If it's more general and involves regular delivery times.
- **Rental E-Commerce:** If my platform allows renting items.

### Marketplace Type: General E-Commerce

**Primary Purpose:** The primary purpose of a General E-Commerce marketplace is to provide a platform where a wide range of products can be bought and sold. This platform typically offers various categories such as electronics, clothing, books, home goods, furniture, beauty products, and cosmetics. The goal is to make shopping convenient by allowing consumers to browse a large selection of products, compare prices, and make purchases all from the comfort of their homes. This type of marketplace aims to serve a broad audience, offering both B2C (Business to Consumer) and C2C (Consumer to Consumer) services. The marketplace's main focus is on ensuring a smooth, secure, and convenient shopping experience for customers, while providing businesses with the opportunity to reach a global customer base.

# Frontend Development:

## Steps for Implementation:

### 1. Setup:

Q. Ensure your Next.js project is connected to Sanity CMS or your chosen API.

“Yes, my Next.js project can be connected to Sanity CMS by installing the `@sanity/client`, initializing it with my `projectId` and `dataset`, and using it to fetch data via queries.”

Q. Test data fetching to confirm availability.

“Yes, my test data fetching by running a query using the Sanity client in my Next.js project and confirming the data is returned in the console or UI.”

### 2. Build Components:

"Yes, I am building reusable components like headers, product cards, and footers in my Next.js project to display dynamically fetched data."

### 3. State Management:

"Yes, I am using React state (`useState`) for local component state and context (`useContext`) for global state management."

### 4. Styling:

"Yes, I am using modern styling libraries like Tailwind CSS and ensuring the designs are responsive for both mobile and desktop views."

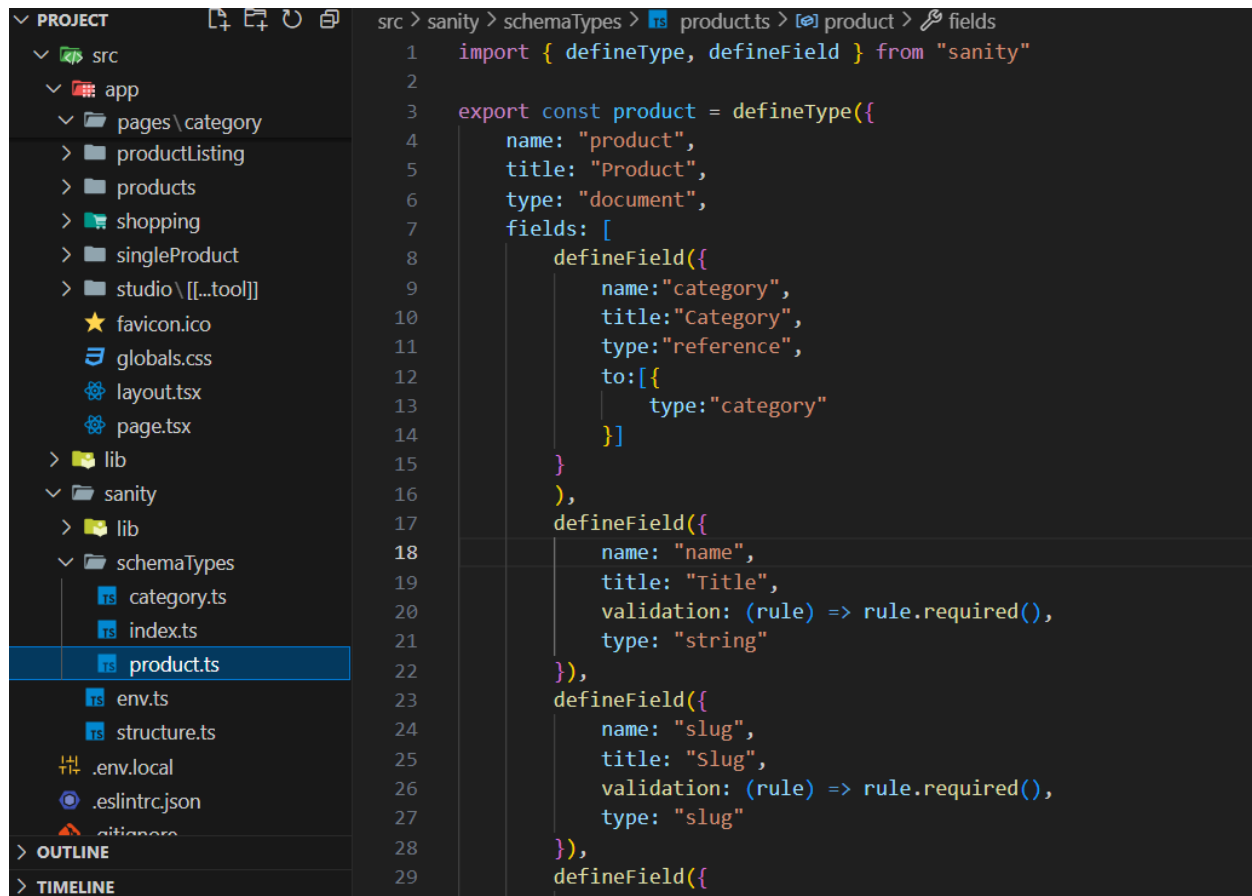
## Fetching products from Sanity through its API

Fetching products from Sanity through its API involves a few key steps:

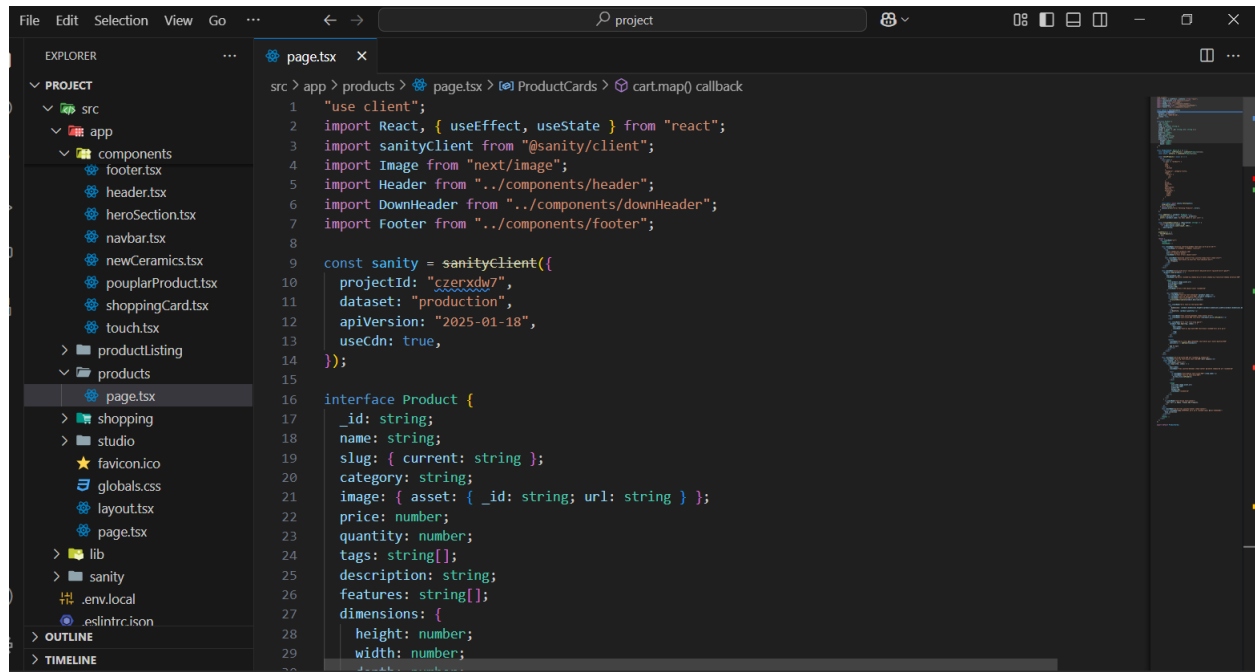
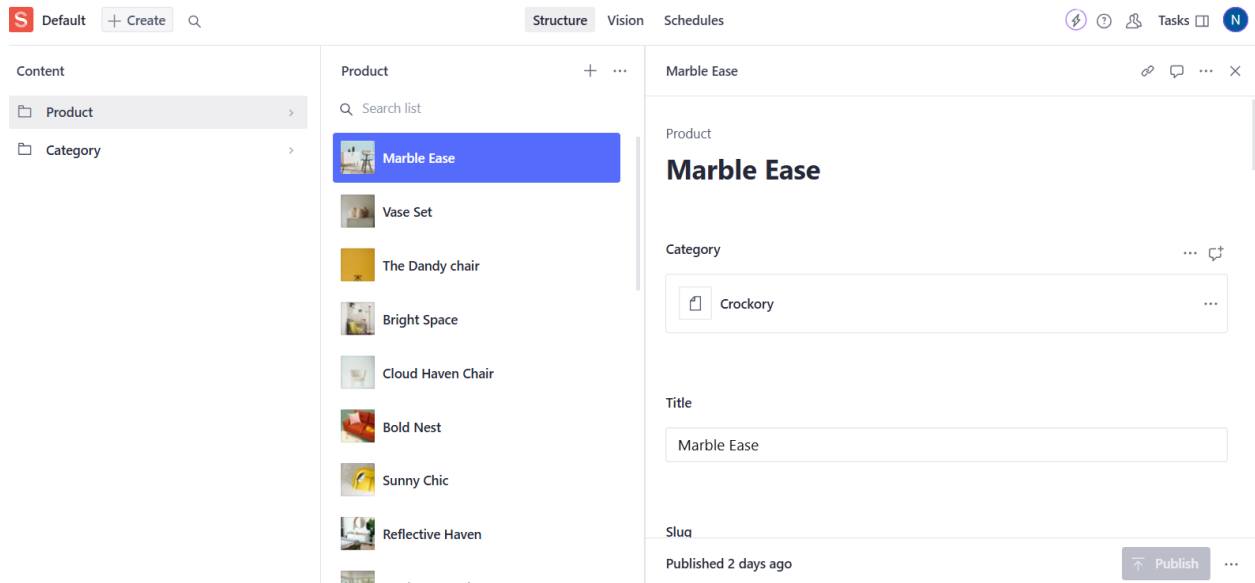
1. **Set Up Sanity Client:** Configure the Sanity client with your project details, such as `projectId`, `dataset`, and API version. Use `useCdn: true` for faster responses with cached data.

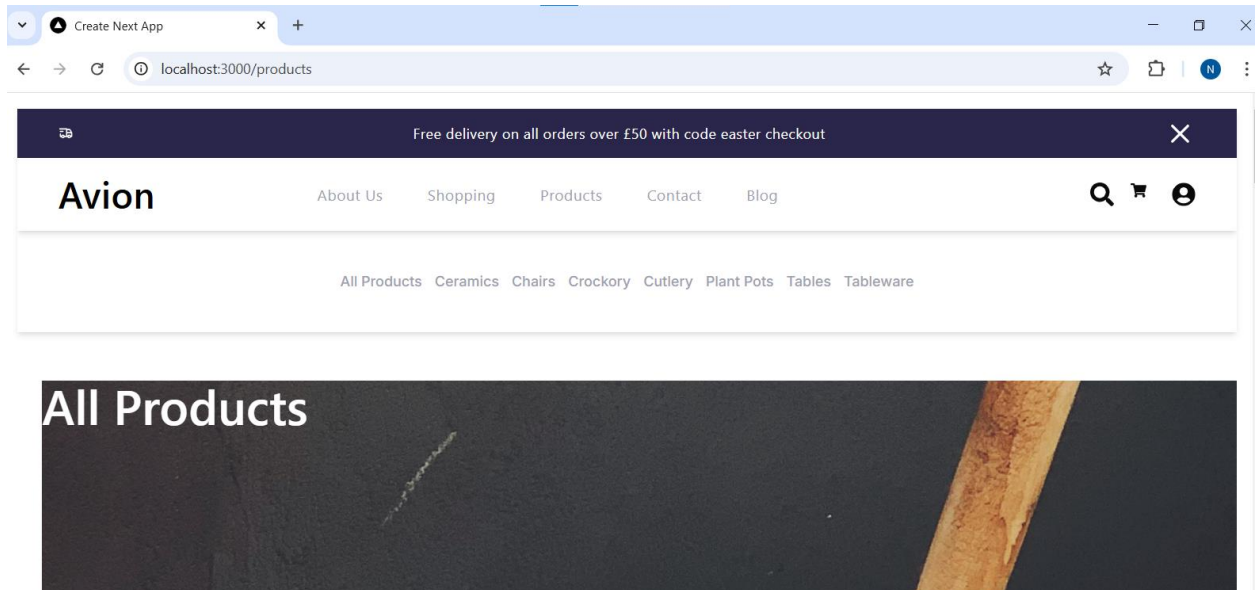
2. **Define a Query:** Create a GROQ (Graph-Relational Object Queries) query to fetch the desired data. For example, to fetch products, you might query for `_id`, `name`, `price`, and `slug`.
3. **Fetch Data:** Use the `fetch` method provided by the Sanity client to execute the query and retrieve data.
4. **Handle State:** Use state management (e.g., React's `useState`) to store the fetched data. Additionally, manage `loading` and `error` states to handle API response times and potential issues.
5. **Display Data:** Once the data is fetched and stored in the state, render it dynamically in your component.

## Product



```
src > sanity > schemaTypes > product.ts > product > fields
1  import { defineType, defineField } from "sanity"
2
3  export const product = defineType({
4    name: "product",
5    title: "Product",
6    type: "document",
7    fields: [
8      defineField({
9        name: "category",
10       title: "Category",
11       type: "reference",
12       to: [{
13         type: "category"
14       }]
15     }),
16   ],
17   defineField({
18     name: "name",
19     title: "Title",
20     validation: (rule) => rule.required(),
21     type: "string"
22   }),
23   defineField({
24     name: "slug",
25     title: "Slug",
26     validation: (rule) => rule.required(),
27     type: "slug"
28   }),
29   defineField({
30     name: "image",
```





### The Poplar suede sofa

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx110cmx50cm cm  
Quantity: 50

**\$980.00**

popular products

Add To Cart



### Tropical Vibe

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$550.00**

Add To Cart



### Sleek Living

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$300.00**

Add To Cart




### Serene Seat

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$350.00**

Add To Cart




**Nordic Elegance**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$280.00**

Add To Cart



**TimberCraft**


A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$320.00**

popular products

Add To Cart




**Timeless Elegance**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$320.00**

Add To Cart




**Modern Serenity**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$480.00**

Add To Cart




**Reflective Haven**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$300.00**

Add To Cart




**Sunny Chic**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$400.00**

Add To Cart




**Bold Nest**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$260.00**

Add To Cart



**The Steel Chair**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$250.00**

product detail hero

Add To Cart

## Fetching Category from Sanity Through API:

Fetching categories from Sanity through its API involves a similar process as fetching products. Here's a concise summary:

### Key Steps:

- Set Up Sanity Client:** Configure the Sanity client with your project details (`projectId`, `dataset`, `apiVersion`) and enable `useCdn` for faster performance.
- Define a GROQ Query:** Write a query to retrieve categories, including fields like `_id`, `name`, and `slug`.
- Fetch Data:** Use the `fetch` method of the Sanity client to execute the query and get the data.

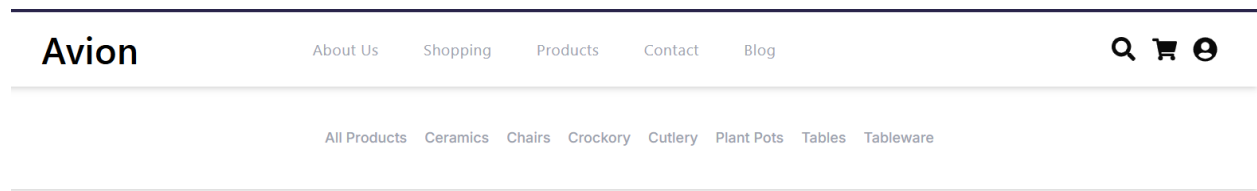
4. **Manage State:** Use state (e.g., `useState` in React) to store the fetched categories and handle loading and error states.
5. **Render Categories:** Display the fetched categories dynamically in your component.

The screenshot shows the Sanity Studio interface. On the left, the 'Content' sidebar has 'Product' and 'Category' folders. The 'Category' folder is selected, showing a list of categories: Tableware, Chairs, Plant Pots, Ceramics, Tables, Cutlery, and Crockory. The 'Crockory' category is highlighted in blue. The main area shows the 'Crockory' category form. It has a 'Name' field with the value 'Crockory' and a 'Slug' field with the value 'crockory'. There is a 'Generate' button next to the slug field. At the bottom, it says 'Published 21 hr. ago' and has a 'Publish' button.

The screenshot shows the Sanity Studio interface with the 'Vision' tab selected. The top bar shows 'Default', '+ Create', and a search icon. The 'Structure' tab is also visible. The main area is divided into two sections: 'QUERY' and 'PARAMS'. The 'QUERY' section contains a query: 

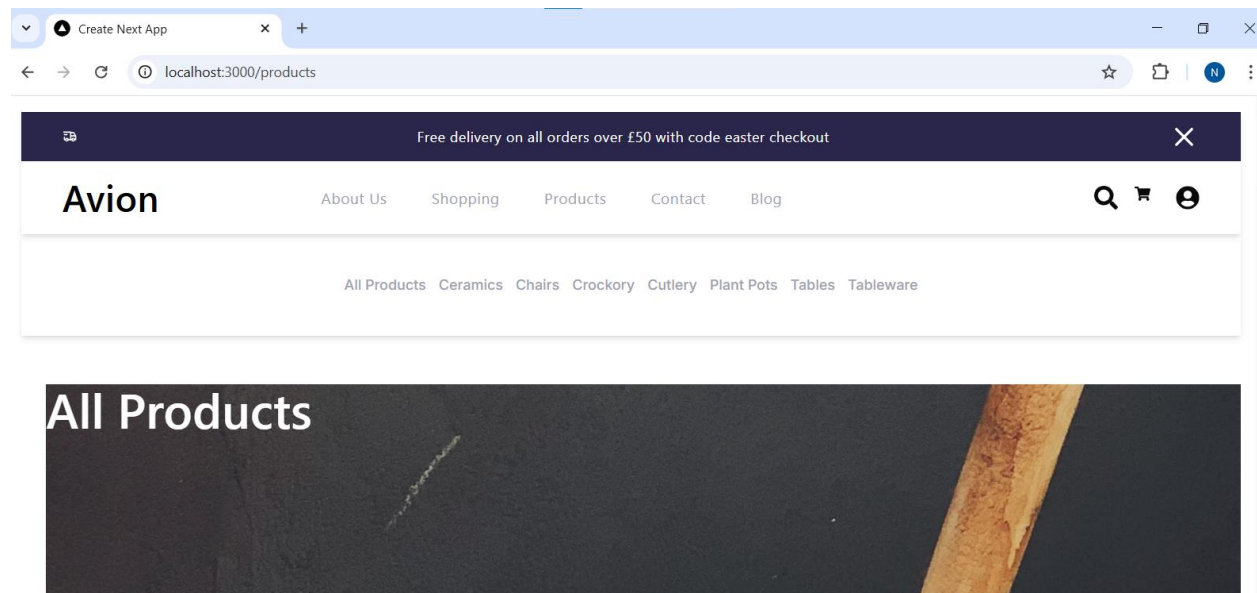
```
*[_type == "category"] {
  _id,
  name,
  slug {
    current
  }
}
```

 The 'PARAMS' section is empty. The 'RESULT' section shows the results of the query, which are 7 items. The first item is a category with \_id: ceramics-7, name: Ceramics, and slug: ceramics. The second item is a category with \_id: chairs-2, name: Chairs, and slug: chairs. The third item is a category with \_id: crockory-24, name: Crockory, and slug: crockory. The bottom bar shows 'Fetch' and 'Listen' buttons, and the execution time: 'Execution: 2ms End-to-end: 351ms'. There is also a 'Save result as' button and a 'JSON' icon.

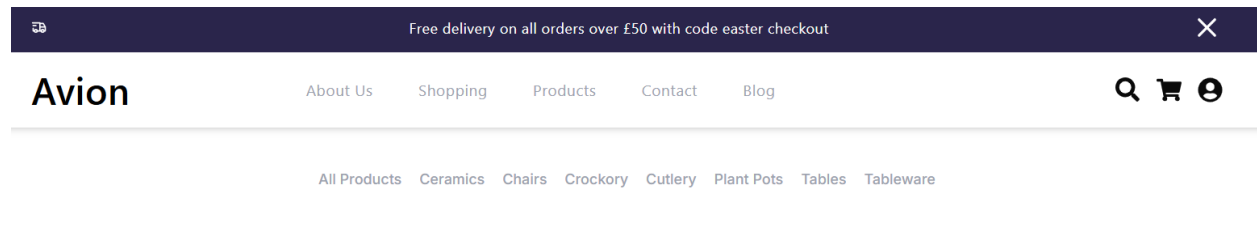


# Dynamic Routing

## Product:





## Category:





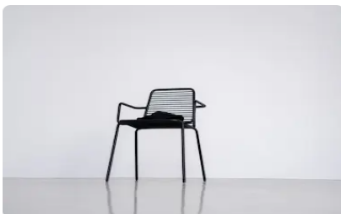
## Shopping Cart:

### Your shopping cart

Product	Quantity	Total
 <b>Graystone vase</b> A timeless ceramic vase with a tri color grey glaze.	- 1 +	£85
 <b>Basic white vase</b> Beautiful and simple, this is one for the classics.	- 1 +	£125
Subtotal		£210

Go to checkout

## Tags:



### The Steel Chair

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$250.00**

product detail hero

Add To Cart



### TimberCraft

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...





Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$320.00**


popular products

Add To Cart

# Add To Cart:

Cart Summary	
Zen Table \$250.00	
Pure Aura \$280.00	
The Lucky Lamp \$200.00	
Pure Aura \$280.00	

# Alert:




**Retro Vibe**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$340.00**

Add To Cart



**The Lucky Lamp**


A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$200.00**

new ceramics

Add To Cart




**Zen Table**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$280.00**

Add To Cart



**Zen Table**

A timeless design, with premium materials features as one of our most popular and iconic pieces. The...

Dimensions: 110cmx75cmx50cm cm  
Quantity: 50

**\$250.00**

Add To Cart

localhost:3000/products

localhost:3000 says  
The Lucky Lamp has been added to your cart!

OK

# Login

## Login

Email

Password

Login

Don't have an account? [Sign up](#)

## Social Icons:

### Menu

New arrivals

Best seller

Recently Viewed

Popular this week

All Products

### Cateryory

Crockery

Furniture

Homeware

Plants pot

Chiar

Crockery

### Our Company

About Us

Vacancies

Contact Us

Privacy

Return Policy

### Join our mailing list

you@gmail.com

Sign Up

# facebook

Facebook helps you connect and share with the people in your life.

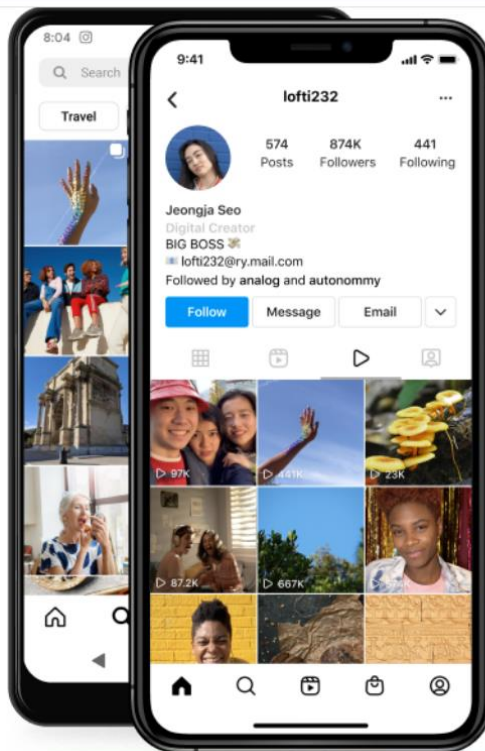
**Log in**

[Forgotten password?](#)

**Create new account**

Create a **Page** for a celebrity, brand or business.

instagram.com



## Instagram

**Log in**

OR

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Don't have an account? [Sign up](#)

Get the app.



## Backend Development:

"I'm learning backend development and plan to continue improving it after the hackathon."