## MARKETPLACE BUSSINESS PLAN DAY 4

# Building Dynamic Frontend Components for my Marketplace – SHOP.CO

In last 3 days, I've focused on how we can plan our marketplace and how we can start our e-commerce business after that all concepts I'm going to create my hackathon in dynamic way how we can do dynamic routing, product listing and many other components. For this I used dynamic and modular components which is reusable. So here is my essential components for my hackathon. I'll explain how I created components and I'll also share my code snippets. Here is breakdown of my components;

### **Building key Components**

#### 1. Product Listing Page:

I've build product listing page dynamically where I've used grid layout for the professional work flow;

```
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```

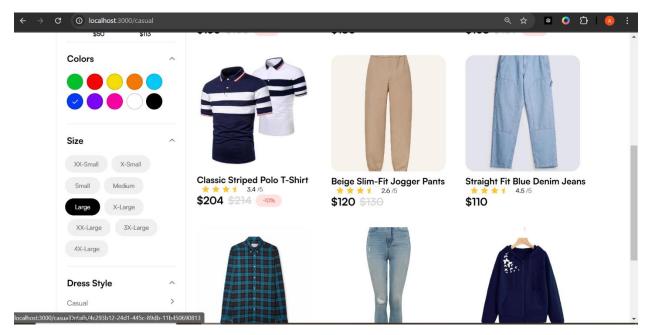
In card component I've design my card style where I've style my image, name, price etc...

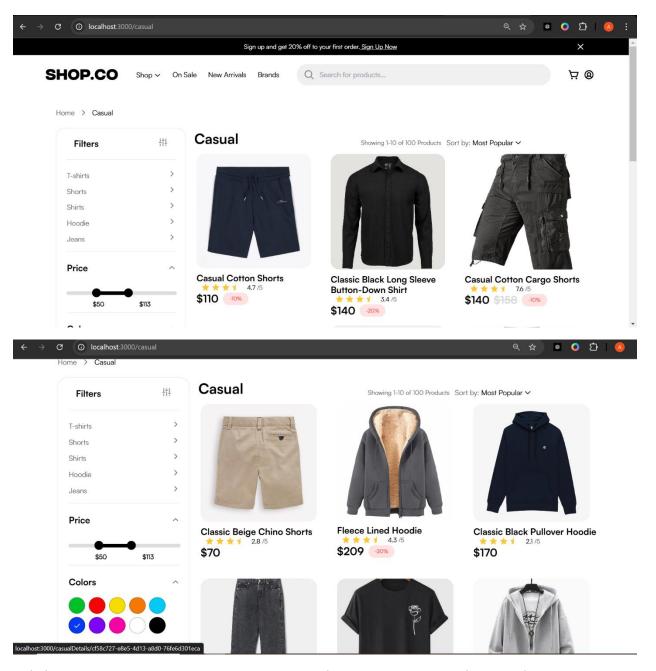
In this Grid component I've used grid layout for responsiveness and also I've used props for product displaying and used map function for fetch all products data.

```
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```

In CasualCard component I've used Groq query for fetching data from sanity CMS and it is displaying dynamically.

So in short in this step I've fetch data dynamically form sanity CMS and using groq query and grid layout for responsiveness.





This is my frontend output these all products I've fetched from sanity and displayed on the frontend.

#### 2. Product Detailed Component:

After fetching multiple products from sanity CMS, now I'm going to create single product page by using dynamic routing where user can visit further detail of product like product description, size, color, reviews etc...

```
	imes File Edit Selection View Go Run \cdots \leftarrow 	o
                                                                                 th II ...
               product: {
  price: number;
                  offer: number;
                  imageUrl: string;
                 ratingReviews: number:
             const Card: React.FC<CardProps> = ({ product }) => {
                  <Link href={ '/casualDetails/${product._id} '} passHref>
                     data-aos="flip-left"
                    data-aos-easing="ease-out-cubic"
data-aos-duration="2000"
className="lg:h-[420px] xx1:h-[420px] x1:h-[380px] flex flex-col justify-between"
                    <div className="1g:w-[295px] 1g:h-[298px] md:w-[230px] md:h-[230px] xx1:w-[295px] xx1:h-[298px] x1:w-[285px] x1:h-[278px] sm:w-</pre>
                      [172px] sm:h-[174px] w-[140px] h-[104px] rounded-[20px] bg-bannerBg relative flex flex-col gap-[10px]"
                         <Image</pre>
                         src={product.imageUrl}
                          height={1000}
width={1000}
                          className="md:w-[444px] md:h-[296px] xxl:w-[444px] xxl:h-[296px] xl:w-[260px] xl:h-[263px] sm:w-[180px] sm:h-[190px]
                          object-cover rounded-[20px] w-[140px] h-[164px]
```

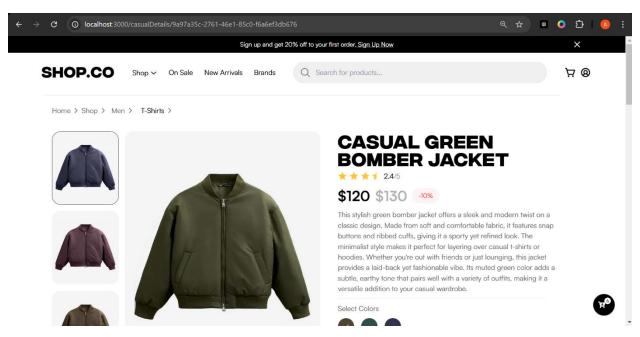
So firstly in my card component I used link component for navigation I've passed casualDetails on the basis of id.

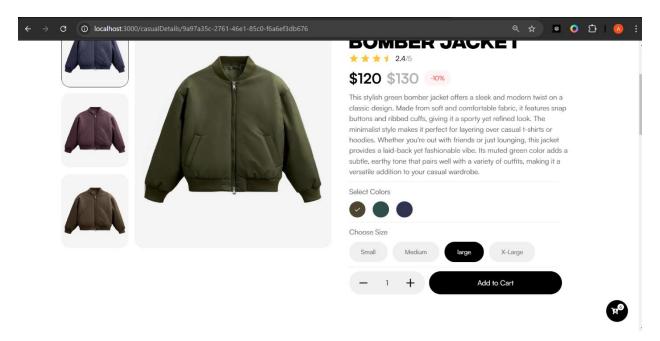
```
| Social CasualDetails: React.FCcProps> = ({ params }) => {
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| Const CasualDetails: React.FccProducts | null> | nul
```

Here is my dynamic routing route where user can visit detailed for product I've used id for the dynamic routing on the basis of id I've used dynamic routing.

```
const CasualDetails: React.FC<Props> = ({ params }) => {
         const fetchProduct = async () => {
             const productData: Products | null = await client.fetch(query, { id });
             if (!productData) {
82
83
               setProduct(productData);
           } catch (error) {
  console.error("Error fetching product:", error);
       }, [id]);
       const increaseQuantity = (productId: string) => {
         const updatedCart = cart.map((item) =>
           item.id === productId
             ? { ...item, quantity: (item.quantity ?? 0) + 1 }
: item
         setCart(updatedCart);
         localStorage.setItem("cart", JSON.stringify(updatedCart));
       const decreaseQuantity = (productId: string) => {
     ⊗1∆0 ₩0
```

And here I've used try and catch for error handling if user buy product which is available in my stock then my try method will implemented otherwise the error with through because of unavailability of product.





So when user click on the card, user will navigate the single product details page on the basis of unique id. So now in step 2 I've implemented my dynamic routing successfully.

#### 3. Category Component:

After dynamic routing I've to implement **Category** component. Firstly I've to used sanity groq query because the data is stored in sanity then I've to fetch category by using groq query. For this I've use State for selected category and then I've used groq query

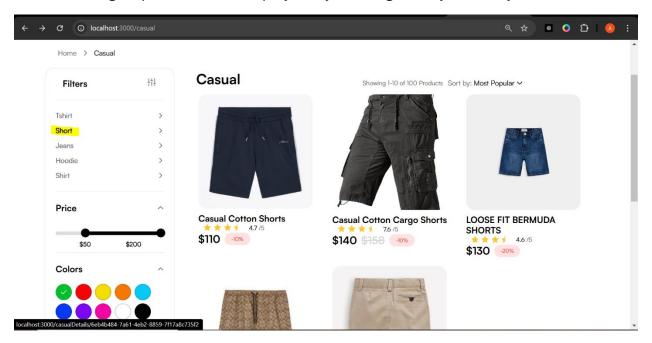
Here is my code snippet you can see how functionality work.

For reusability I created **SideBar** component and then I've passed props.

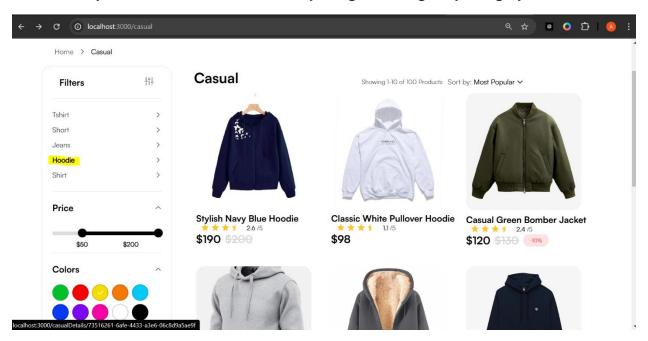
```
"use client";
import React from "react";
import RangeSlider from "./PriceRange";
import { useState } from "react";
import { useState } from "useState } from "useState { useState } from "useState } from "us
```

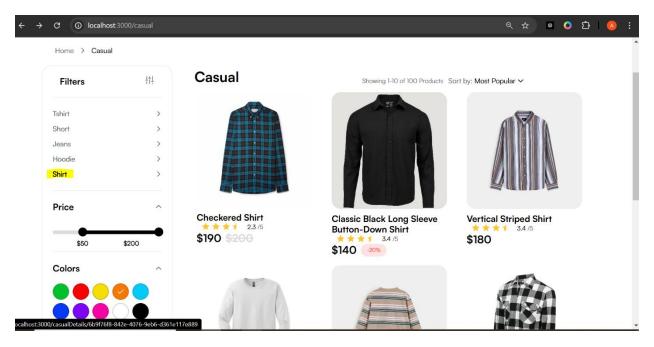
This Is my sidebar component where i used props an array for categories.

And then using map function I've displayed my all categories dynamically.



So here is my frontend where user can easily navigate through any category .





So I've completed my step 3 successfully. In this step I've created dynamic category component.