

DAY 4 - DYNAMIC FRONT-END COMPONENTS

SHOP.CO

OVERVIEW:





- On Day 4, I implemented key features to enhance the functionality of my e-commerce website, Shop.co, ensuring a dynamic and user-friendly experience.
- Below are the details of the work completed:





TECHNICAL WORKFLOW

Product Listing:

- Fetched dynamic data from Sanity CMS to populate the product grid.
- Integrated category filters, a search bar, and pagination to allow users to browse and locate products seamlessly.
 - **Product Detail Page:**
- Implemented individual product detail pages with accurate dynamic routing using Next.Js.
- Each detail page renders data dynamically from Sanity CMS.

Category Page:

- Dynamically fetched products based on their categories using Sanity CMS.
- Rendered category-specific product listings with pagination for better user navigation.

TECHNICAL WORKFLOW

Add to Cart Workflow:

- Developed a slice using Redux Toolkit to manage cart state.
- Configured store.ts to include persistence middleware for saving cart data in local storage.
- Connected the toast notification component to trigger upon successful cart actions.

Responsive Design:

• Thoroughly tested and adjusted the layout for different screen sizes, ensuring consistent functionality and aesthetics.

Toastify Notifications:

- Created a client-rendered component to manage toast notifications efficiently.
- Added success messages to confirm user actions, such as adding items to the cart.



BEST PRACTICES FOLLOWED

- Ensured code modularity by separating concerns into dedicated folders and files.
- Followed clean code principles, making the project easy to maintain and extend.
- Implemented efficient state management using Redux Toolkit and redux-persist.
- Tested the application thoroughly to ensure responsiveness and functionality across devices.



Product Listing Page(Dynamic Routing)



```
import { Button } from "@/components/ui/button";
import Image from "next/image":
import { useState, useEffect } from "react";
  imageUrl: string:
 isNew: boolean;
  <FaStar key={5} />,
  const [products, setProducts] = useState<Iproducts[]>([]);
  const [error, setError] = useState<string | null>(null);
    const fetchProducts = async () => {
        setLoading(true);
            `*[_type == 'products']{
    "imageUrl": image.asset->url,
        setProducts(fetchedProducts);
        setError("Failed to load products. Please try again later.");
        console.error("Error fetching products:", err);
      } finally {
        setLoading(false);
```

```
<div className="w-full h-full mt-10 max-w-screen-xl mx-auto">
     <h1 className="text-3xl md:text-4xl font-bold text-center">TOP SELLING</h1>
         {data.imageUrl ? (
             src={urlFor(data.imageUrl).url()}
             className="w-full h-full rounded-[20px]"
width={100}
             - '\className="w-full h-full flex justify-center items-center bg-gray-300 rounded-[20px]">-
              No Image
          ${data.price.toFixed(2)}
            View all
```



Redux Store

```
1 import { combineReducers, configureStore } from '@reduxis/toolkit'
    import cartSlice from './features/cart'
    import storage from 'redux-persist/lib/storage';
    import persistReducer from 'redux-persist/lib/persistReducer';
    const persistconfiq = {
      key: "root",
     version:1,
      storage,
10 }
    const reducer = combineReducers({
      cart:cartSlice
    const persistedReducer = persistReducer(persistconfig, reducer)
16 export const store = configureStore({
      reducer:persistedReducer,
     middleware: (getDefaultMiddleware) =>
       getDefaultMiddleware({serializableCheck:false}),
23 export type RootState = ReturnType<typeof store.getState>
25 export type AppDispatch = typeof store.dispatch
26 export type AppStore = typeof store
```







Redux Hooks



```
import { useDispatch, useSelector } from 'react-redux'
import type { AppDispatch, RootState } from './store'

// Use throughout your app instead of plain `useDispatch` and `useSelector`
export const useAppDispatch = useDispatch.withTypes<AppDispatch>()
export const useAppSelector = useSelector.withTypes<RootState>()
```







CartSlice



```
1 import { createSlice, PayloadAction } from '@reduxis/toolkit'
 4 export const cartSlice = createSlice({
      initialState:[],
      reducers: {
        add(state:anv.action){
         let uuid = Math.floor(1000+Math.random()*9000)
         let newobj = {...action.payload,uuid}
          state.push(newobj)
         remove(state:any,{payload}){
           return state.filter((val:any)=> val.uuid !== payload)
        addition(state:any,action){
         let obj = state.find(
              val.id == action.payload.id &&
             val.color == action.payload.color &&
              val.size == action.payload.size
```

```
++obj.qty;
           let newState = state.filter((val:any)=> val.id !== obj.id);
            state = [...newState,obj];
        subraction(state:any,action){
         let obj = state.find(
             val.id == action.payload.id &&
             val.color == action.payload.color &&
             val.size == action.payload.size
         if(obj !== undefined){
           --obi.atv:
           let newState = state.filter((val:any)=> val.uuid !== obj.uuid);
            state = [...newState,obj];
25 export const {add, remove, subraction, addition} = cartSlice.actions
27 export default cartSlice.reducer
```





Provider

```
1 import { combineReducers, configureStore } from '@reduxis/toolkit'
    import cartSlice from './features/cart'
    import storage from 'redux-persist/lib/storage';
    import persistReducer from 'redux-persist/lib/persistReducer';
    const persistconfiq = {
      key: "root",
     version:1,
      storage,
11 const reducer = combineReducers({
      cart:cartSlice
    const persistedReducer = persistReducer(persistconfig, reducer)
16 export const store = configureStore({
      reducer:persistedReducer,
     middleware: (getDefaultMiddleware) =>
       getDefaultMiddleware({serializableCheck:false}),
23 export type RootState = ReturnType<typeof store.getState>
25 export type AppDispatch = typeof store.dispatch
26 export type AppStore = typeof store
```







Pagination & Toastify

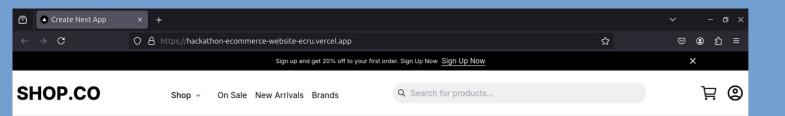


```
2 import React from 'react';
6 import { add } from '../Redux/features/cart';
   import { Button } from '@/components/ui/button';
   const dispatch = useDispatch()
14 const handleadd = (cartItem:any)=>{
       dispatch(add(cartItem))
         autoClose: 5000,
         hideProgressBar: false,
         closeOnClick: false.
          pauseOnHover: true,
         draggable: true,
          transition: Bounce,
        <div onClick={()=>handleadd(cartItem)}>
             <Button onClick={notify} className="bg-black text-white lq:w-[300px]"</pre>
               >Add to Cart</Button>
        position="bottom-right"
        hideProgressBar={false}
        newestOnTop={false}
        closeOnClick={false}
         pauseOnFocusLoss
         draggable
        pauseOnHover
         theme="light"
         transition={Bounce}
55 export default Toastify
```

Pagination

```
Pagination.
       PaginationContent,
       PaginationEllipsis,
       PaginationLink,
       PaginationNext,
       PaginationPrevious,
12 function Paginationpage() {
     return (
       <div className="w-full mt-4">
      <PaginationContent className="w-full space-x-4 flex justify-center lg:ml-7">
         <PaginationPrevious href="/" />
        <PaginationItem className="hidden lg:block">
        <PaginationItem className="hidden lg:block">
        <PaginationItem className="hidden lg:block">
         <PaginationLink href="/sell">Top Sell</PaginationLink>
        <PaginationItem className="hidden lg:block">
         <PaginationLink href="/brand">Brands</PaginationLink>
52 export default Paginationpage
```





PRODUCTS LISTING

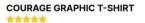
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NEW ARRIVALS

▲ Create Next App





145 0



Sleeve Stripe T-Shirt **** 130 40









A https://hackathon-ecommerce-website-ecru.vercel.app/product/rnb16y4e0BKBqYGF3LUkUL

On Sale New Arrivals Brands

Sign up and get 20% off to your first order. Sign Up Now Sign Up Now

Gradient Graphic T-shirt

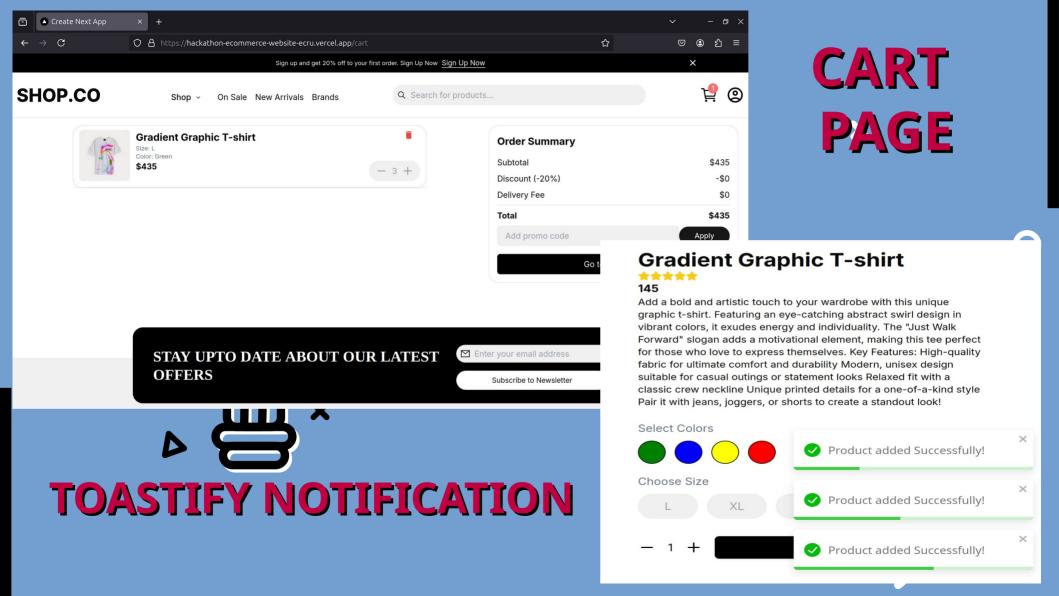
Q Search for products...

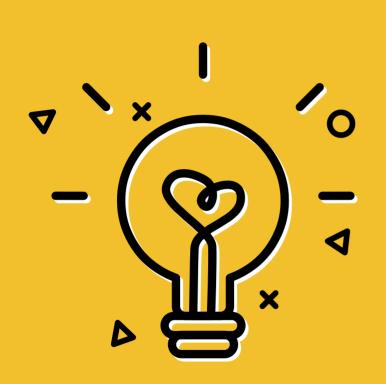
Add a bold and artistic touch to your wardrobe with this unique graphic t-shirt. Featuring an eve-catching abstract swirl design in vibrant colors, it exudes energy and individuality. The "Just Walk Forward" slogan adds a motivational element, making this tee perfect for those who love to express themselves. Key Features: High-quality fabric for ultimate comfort and durability Modern, unisex design suitable for casual outings or statement looks Relaxed fit with a classic crew neckline Unique printed details for a one-of-a-kind style Pair it with jeans, joggers, or shorts to create a standout look!



Add to Cart

PRODUCT **DETAILS**





THANK YOU