



# DYNAMIC FRONTEND COMPONENTS-URBANSTITCH

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## Overview

I tried to implement Key Features to enhance functionality of e-commerce website, Urban Stitch ensuring dynamic and user-friendly experience

## Features

- Product Listing Page
- Product detail page
- Add to Cart functionality with Redux
- Pagination with ShadCN UI
- Responsive design with Tailwind CSS

## Technical Workflow

- **Product Listing Page Workflow**
  - Fetched dynamic data from Sanity CMS to populate the product grid
  - Integrated category filters, search bar, and pagination to allow users to browse and locate products seamlessly
- **Category Page**
  - Dynamically fetched products based on their categories using Sanity CMS.
  - Rendered category-specific product listings with pagination for better user navigation.
- **Product Detail Page**
  - Implemented individual product detail pages with accurate dynamic routing using Next.js.
  - Each detail page renders data dynamically from Sanity CMS
- **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
  - Added success messages to confirm user actions, such as adding items to the cart.

## Product Listing Code

```
app > product > [id] > ⌘ page.tsx > ⌘ star
"use client";
import Image from "next/image";
import { FaStar } from "react-icons/fa";
import { Minus, Plus } from "lucide-react";
import { useEffect, useState } from "react";
import { client } from "@sanity/lib/client";
import { urlFor } from "@sanity/lib/image";
import CustomerTestimonials from "@components/AllReviews";
import Top_sell from "@components/arrivals";
import { BreadcrumbCollapsed } from "@components/Breadcrupm";
import { useDispatch } from "react-redux";
import Toastify from "@app/cart/toastify";

// Adding key prop in star array
let star = [
  <FaStar key={1} />,
  <FaStar key={2} />,
  <FaStar key={3} />,
  <FaStar key={4} />,
  <FaStar key={5} />,
];

interface Iproducts {
  image: string[];
  discountPercent: number;
  isNew: boolean;
  name: string;
  description: string;
  price: number;
  _id: string;
  colors: string[];
  sizes: string[];
}

export default function SlugPage({ params }: { params: { id: string } }) {
  const [product, setProduct] = useState<Iproducts | null>(null);
  const [cartItem, setCartItem] = useState<any>(null);
```

```

}

export default function SlugPage({ params }: { params: { id: string } }) {
  const [product, setProduct] = useState<Iproducts | null>(null);
  const [cartItem, setCartItem] = useState<any>(null);
  const [loading, setLoading] = useState(true);
  const [error, setError] = useState(false);
  const dispatch = useDispatch();

  useEffect(() => {
    const fetchProduct = async () => {
      try {
        setLoading(true);
        const products: Iproducts[] = await client.fetch(
          `*[ _type == 'products' ] {
            image: image.asset->url,
            category,
            discountPercent,
            isNew,
            name,
            description,
            price,
            _id,
            colors,
            sizes
          }`
        );

        const slug = products.find((item) => item._id === params.id);

        if (!slug) {
          setError(true);
        } else {
          setProduct(slug);
          setCartItem({
            id: slug._id,
            name: slug.name,
```

## Dynamic routing Code

```
import Image from 'next/image';
import Link from 'next/link';
import { FaStar } from 'react-icons/fa';

interface Iproducts{
  title:string,
  price:string,
  id:number
  rating?:string,
  old_price?:string
  img_url:string
}

let product:Iproducts[] = [
  {
    title:"T-Shirt with Tape Details",
    id:1,
    price:"$120",
    img_url:"/product1.png"
  },
  {
    title:"Skinny Fit Jeans",
    id:2,
    price:"$240",
    img_url:"/product2.png",
    old_price:"$260"
  },
  {
    title:"Checkered Shirt",
    id:3,
    price:"$180",
    img_url:"/product3.png"
  },
  {
    title:"Sleeve Striped T-Shirt",
```

```
    // Adding key prop in star array
    let star = [
      <FaStar key={1} />,
      <FaStar key={2} />,
      <FaStar key={3} />,
      <FaStar key={4} />,
      <FaStar key={5} />,
    ];
    export default function Products(){
      return(
        <div className="w-full h-full sm:h-[500px] mt-10">
          <h1 className="text-3xl md:text-4xl font-bold text-center">NEW ARRIVALS</h1>
          <div className="flex-col md:flex-row justify-center items-center md:justify-between px-0 mt-10">
            {
              product.map((data)=>{
                return(
                  <div key={data.id}>
                    <Link href="/products/${data.id}" />
                    <div className="w-[180px] h-[180px] md:w-[280px] md:h-[280px] bg-[#f0f0f0] rounded-[20px]"
                      <Image src={data.img_url} alt={data.title}
                        className="w-full h-full rounded-[20px]"
                        width={180} height={180}></Image>
                    </div>
                    </Link>
                    <div>
                      <p className="text-lg mt-2 font-bold">{data.title}</p>
                      <div className="flex text-yellow-400">
                        {star.map((icon, index) => (
                          <span key={index}>{icon}</span>
                        ))}
                      </div>
                      <p className="font-bold mt-1">{data.price} <span className="text-gray-400 font-bold line-through"> {data.old_price}</span>
                    </div>
                  </div>
                )
              })
            }
          </div>
        </div>
      )
    }
  }
}
```

## Redux Store Code

```
c> app > Redux > TS store.ts > ...
1 import { combineReducers, configureStore } from '@reduxjs/toolkit';
2 import cartSlice from '../features/cart';
3 import { persistReducer, persistStore } from 'redux-persist';
4 import createWebStorage from 'redux-persist/lib/storage/createWebStorage';
5
6 // Create a fallback for SSR
7 const createNoopStorage = () => ({
8   getItem(_key: string) {
9     return Promise.resolve(null);
10   },
11   setItem(_key: string, _value: any) {
12     return Promise.resolve();
13   },
14   removeItem(_key: string) {
15     return Promise.resolve();
16   },
17 });
18
19 // Use the browser storage in the client and noop storage in SSR
20 const storage =
21   typeof window !== 'undefined' ? createWebStorage('local') : createNoopStorage();
22
23 // Redux persist configuration
24 const persistConfig = {
25   key: 'root',
26   version: 1,
27   storage, // Use the appropriate storage
28 };
29
30 // Combine reducers
31 const rootReducer = combineReducers({
32   cart: cartSlice, // Add additional reducers here
33 });
34
35 // Persisted reducer
36 const persistedReducer = persistReducer(persistConfig, rootReducer);
37
38 // Configure the Redux store
39 export const store = configureStore({
40   reducer: persistedReducer,
41   middleware: (getDefaultMiddleware) =>
42     getDefaultMiddleware({
43       serializableCheck: false, // Disable serializable checks for redux-persist
44     }),
45 });
46
47 // Create the persistor
48 export const persistor = persistStore(store);
49
50 // Infer the `RootState` and `AppDispatch` types
51 export type RootState = ReturnType<typeof store.getState>;
52 export type AppDispatch = typeof store.dispatch;
53
```

## Hooks Code

```
src > app > Redux > TS hooks.ts > ...
1 import { useDispatch, useSelector } from 'react-redux'
2 import type { AppDispatch, RootState } from './store'
3
4 // Use throughout your app instead of plain `useDispatch` and `useSelector`
5 export const useAppDispatch = useDispatch.withTypes<AppDispatch>()
6 export const useAppSelector = useSelector.withTypes<RootState>()
```

## Cart Slice Code

```
rc > app > Redux > features > TS cart.ts > cartSlice > reducers
1 import { createSlice, PayloadAction } from '@reduxjs/toolkit'
2
3 // Define the initial state using that type
4
5 export const cartSlice = createSlice({
6   name: 'products',
7   // `createSlice` will infer the state type from the `initialState` argument
8   initialState: [],
9   reducers: [
10    // add to cart functionality
11    add(state:any,action){
12      let uuid = Math.floor(1000+Math.random()*9000)
13      let newobj = {...action.payload,uuid}
14      state.push(newobj)
15    },
16    // delete from cart
17    remove(state:any,{payload}){
18      return state.filter((val:any)=> val.uuid !== payload)
19    },
20    // addition of item
21    addition(state:any,action){
22      let obj = state.find(
23        (val:any)=>
24        val.id == action.payload.id &&
25        val.color == action.payload.color &&
26        val.size == action.payload.size
27      );
28      if(obj){
29        ++obj.qty;
30        let newState = state.filter((val:any)=> val.id !== obj.id);
31        state = [...newState,obj];
32        return
33      }
34    },
35    // subtraction of item
36    subtraction(state:any,action){
37      let obj = state.find(
```

## Provider Code

```
providers.tsx U X
src > app > providers.tsx > ...
1  "use client"
2  import { Provider } from "react-redux";
3  import { store } from "../app/Redux/store";
4  import { PersistGate } from "redux-persist/integration/react";
5  import { persistStore } from "redux-persist";
6
7
8  function Providers({ children, }: Readonly<{children: React.ReactNode;}>) {
9    let persistore = persistStore(store)
10   return (
11     <Provider store={store}>
12       <PersistGate persistor={persistore}>
13         {children}
14       </PersistGate>
15     </Provider>
16   )
17 }
18
19 export default Providers
```



## Pagination Code

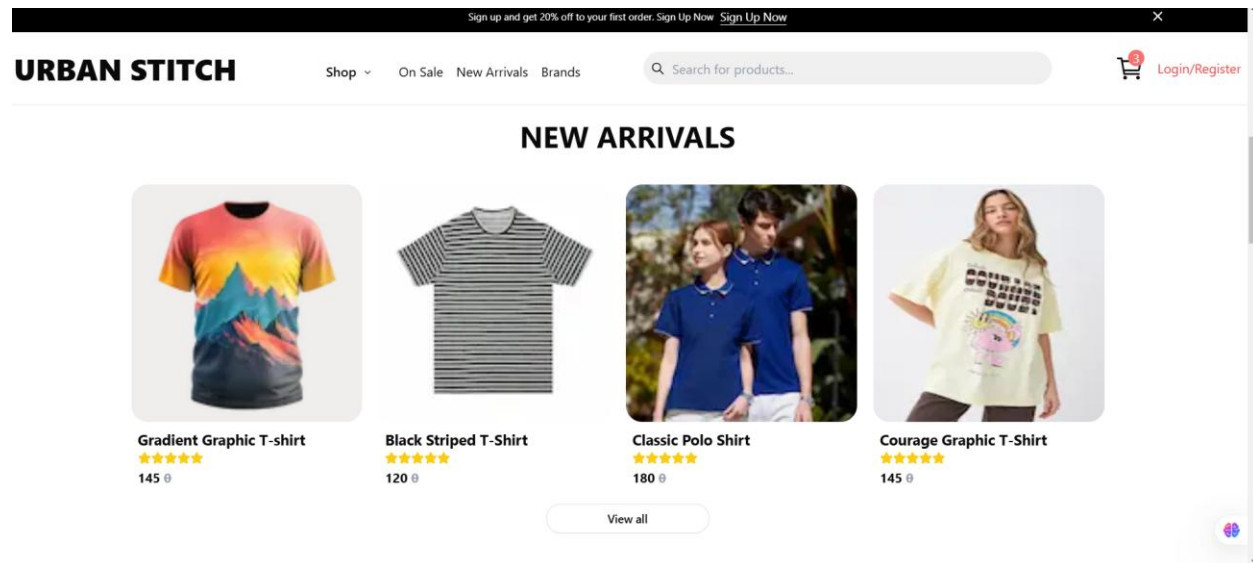
```
rc > components > pagination.tsx > ...
1  import {
2      Pagination,
3      PaginationContent,
4      PaginationEllipsis,
5      PaginationItem,
6      PaginationLink,
7      PaginationNext,
8      PaginationPrevious,
9  } from "@components/ui/pagination"
10 import React from 'react'
11
12 function Paginationpage() {
13     return (
14         <div className="w-full mt-4">
15             <Pagination>
16                 <PaginationContent className="w-full space-x-4 flex justify-center lg:ml-7">
17                     <PaginationItem>
18                         <PaginationPrevious href="/" />
19                     </PaginationItem>
20
21                     <PaginationItem className="hidden lg:block">
22                         <PaginationLink href="/">Home</PaginationLink>
23                     </PaginationItem>
24                     <PaginationItem className="hidden lg:block">
25                         <PaginationEllipsis />
26                     </PaginationItem>
27
28                     <PaginationItem className="hidden lg:block">
29                         <PaginationLink href="/sell">Top Sell</PaginationLink>
30                     </PaginationItem>
31                     <PaginationItem className="hidden lg:block">
32                         <PaginationEllipsis />
33                     </PaginationItem>
34
35                     <PaginationItem>
36                         <PaginationLink href="/brand">Brands</PaginationLink>
37                     </PaginationItem>

```

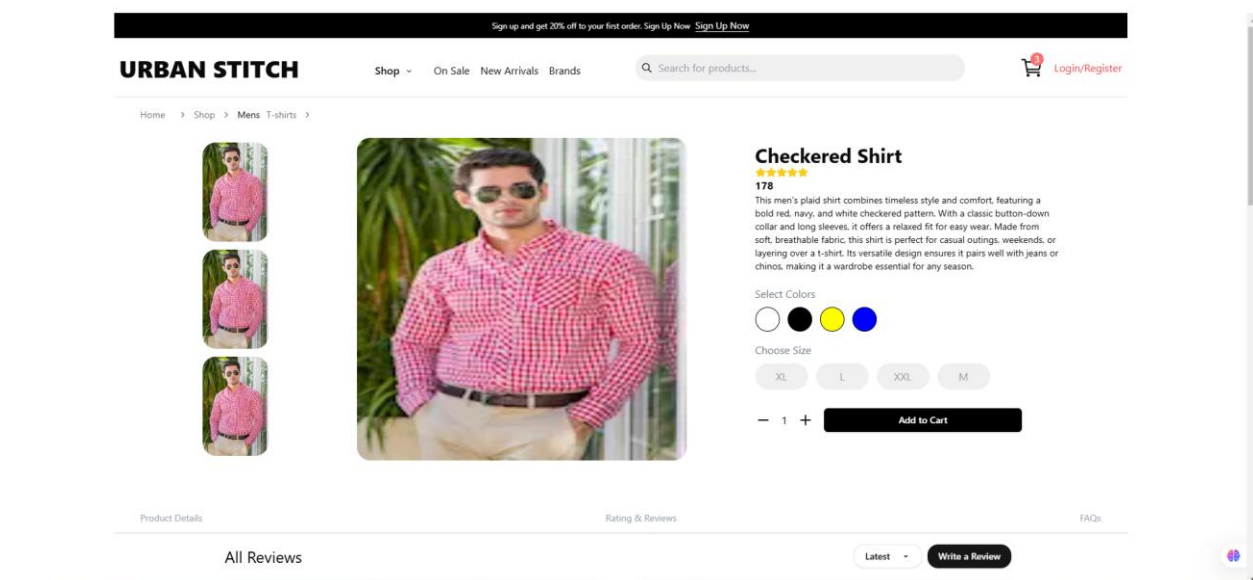
## Toastify Code

```
toastify.tsx U X
src > app > cart > toastify.tsx > Toastify > dispatch
1  "use client"
2  import React from 'react';
3  import { useDispatch } from 'react-redux';
4  import { Bounce, ToastContainer, toast } from 'react-toastify';
5  import "react-toastify/ReactToastify.css";
6  import { add } from '../Redux/features/cart';
7  import { Button } from '@components/ui/button';
8
9
10 function Toastify({cartItem}:any) {
11   ⚠
12   const dispatch = useDispatch()
13
14   const handleadd = (cartItem:any)=>{
15     dispatch(add(cartItem))
16   }
17
18
19   const notify = () =>
20   toast.success('Product added Successfully!', {
21     position: "bottom-right",
22     autoClose: 5000,
23     hideProgressBar: false,
24     closeOnClick: false,
25     pauseOnHover: true,
26     draggable: true,
27     progress: undefined,
28     theme: "light",
29     transition: Bounce,
30   });
31   return (
32     <>
33     <div onClick={()=>handleadd(cartItem)}>
34       <Button onClick={notify} className="bg-black text-white w-[300px]"
35       >Add to Cart</Button>
36     </div>
37     <ToastContainer
```

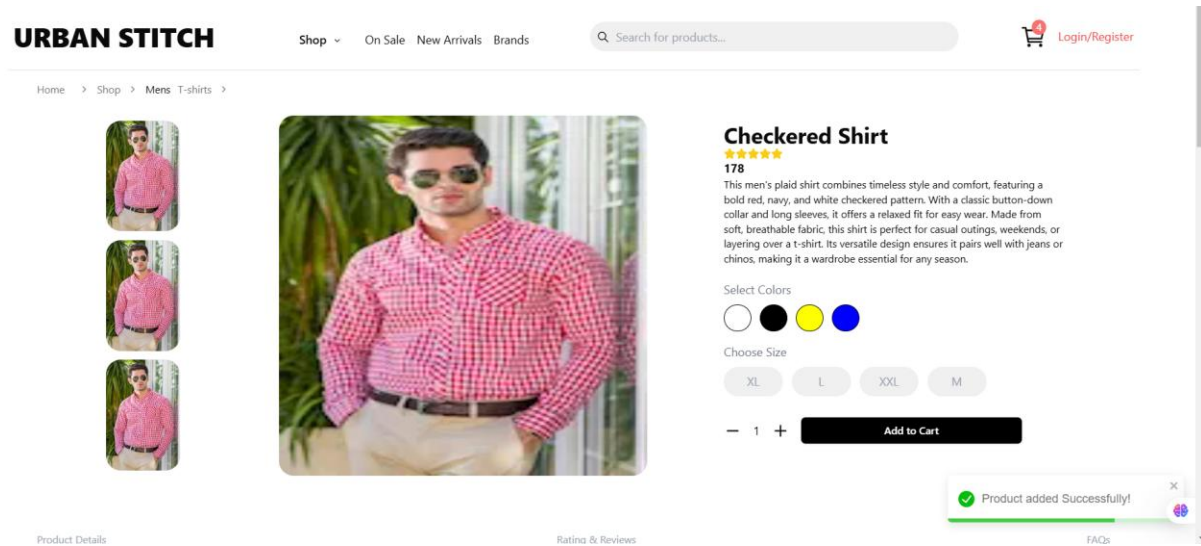
## Product Listing



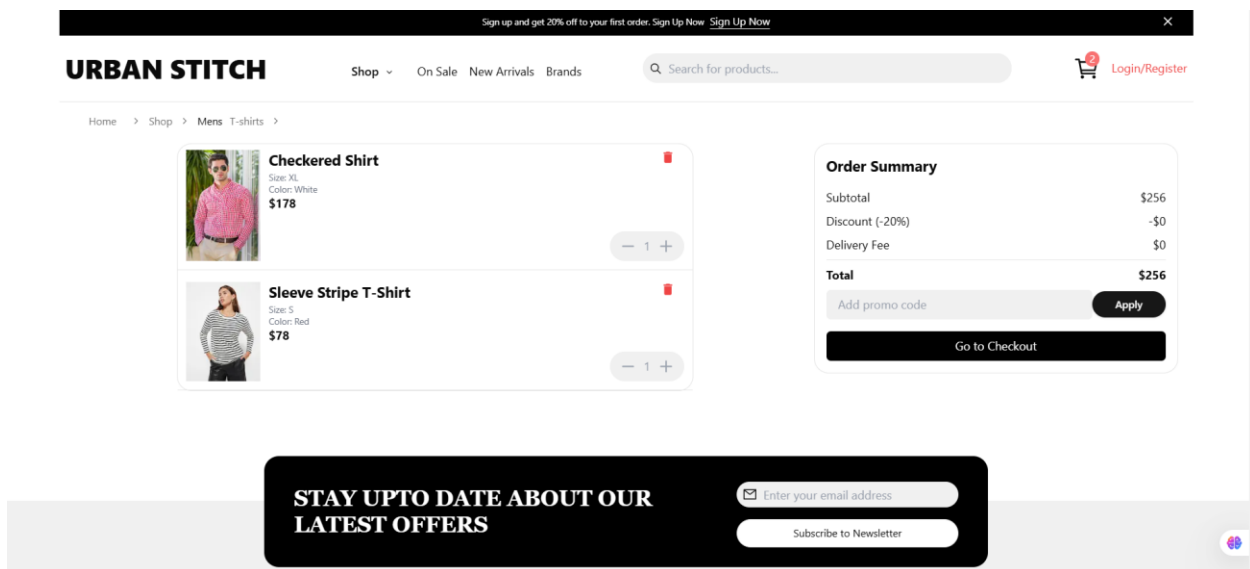
## Product Detail Page



## Toastify notification



## Cart Page



## Payment Gateway Integration

Will use **Stripe** for Payment Gateway Integration