Day 4

Building Dynamic Frontend Components for "GENERAL E-COMMERCE"

A guide to developing reusable and interactive UI components for efficiently displaying and managing e-commerce product data.

1. Product Listing

- Fetch and display product data dynamically using APIs.
- Show product images, names, prices, and tags in a grid or list format.
- Implement lazy loading or infinite scrolling for better performance.

2. Product Details

- Display detailed information about selected products.
- Include product images, descriptions, prices, available stock, and customer reviews.
- Implement image zoom, carousel, or video previews for better visualization.

3. Cart & Checkout

- Add and remove products from the shopping cart dynamically.
- Update product quantities and calculate total costs in real time.
- Implement a smooth and secure checkout process with multiple payment options.

4. Filters & Sorting

• Enable users to filter products based on categories, price range, brand, and ratings.

5. Search Functionality

• Implement a real-time search bar for quick product discovery.

6. Responsive & Mobile-Friendly Design

Optimize images and layouts to improve page speed and loading time.

7. User Authentication & Wishlist

• Implement login/signup features using authentication providers (Google, Facebook, etc.).



```
"use client"
import { createSlice, PayloadAction } from '@reduxjs/toolkit'
export const cartSlice = createSlice({
  name: 'products',
  initialState: [],
  reducers: {
    add(state: any, 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: any) =>
         val.id == action.payload.id &&
         val.color == action.payload.color &&
         val.size == action.payload.size
      if (obj) {
       ++obj.qty
       let newState = state.filter((val: any) => val.id !== obj.id)
```





