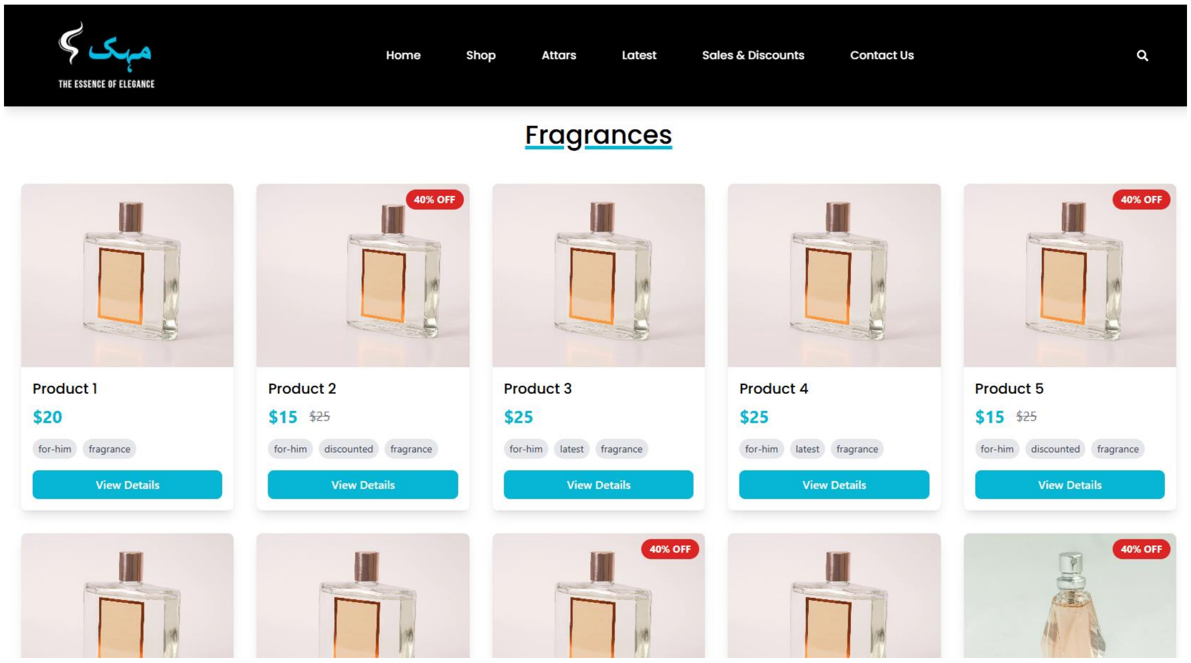
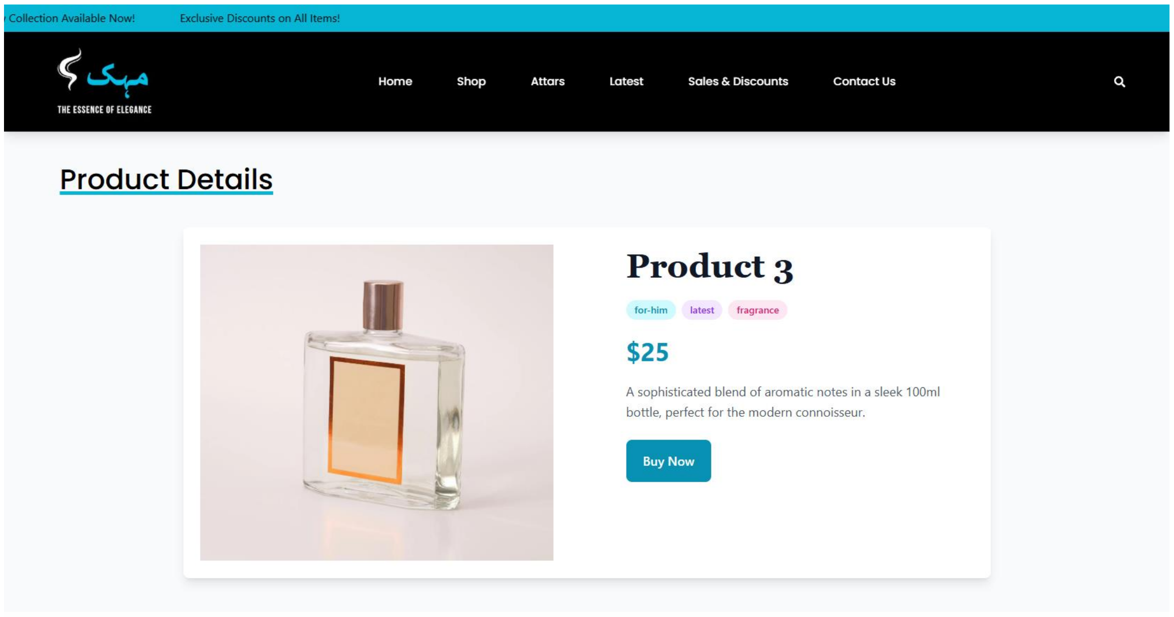
Day 4 - Dynamic Frontend Components | “ مہک “

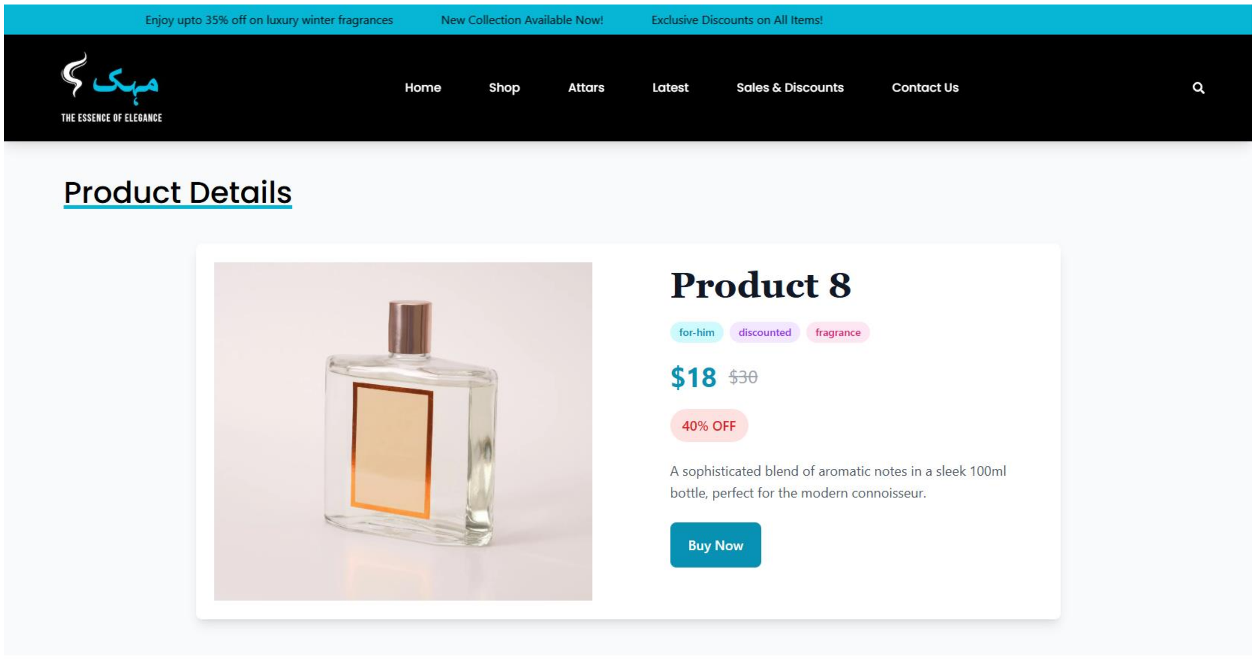
1. Product Listing Component:





A sophisticated blend of aromatic notes in a sleek 100ml bottle, perfect for the modern connoisseur.

2. Product Detail Component:



Enjoy upto 35% off on luxury winter fragrances New Collection Available Now! Exclusive Discounts on All Items!

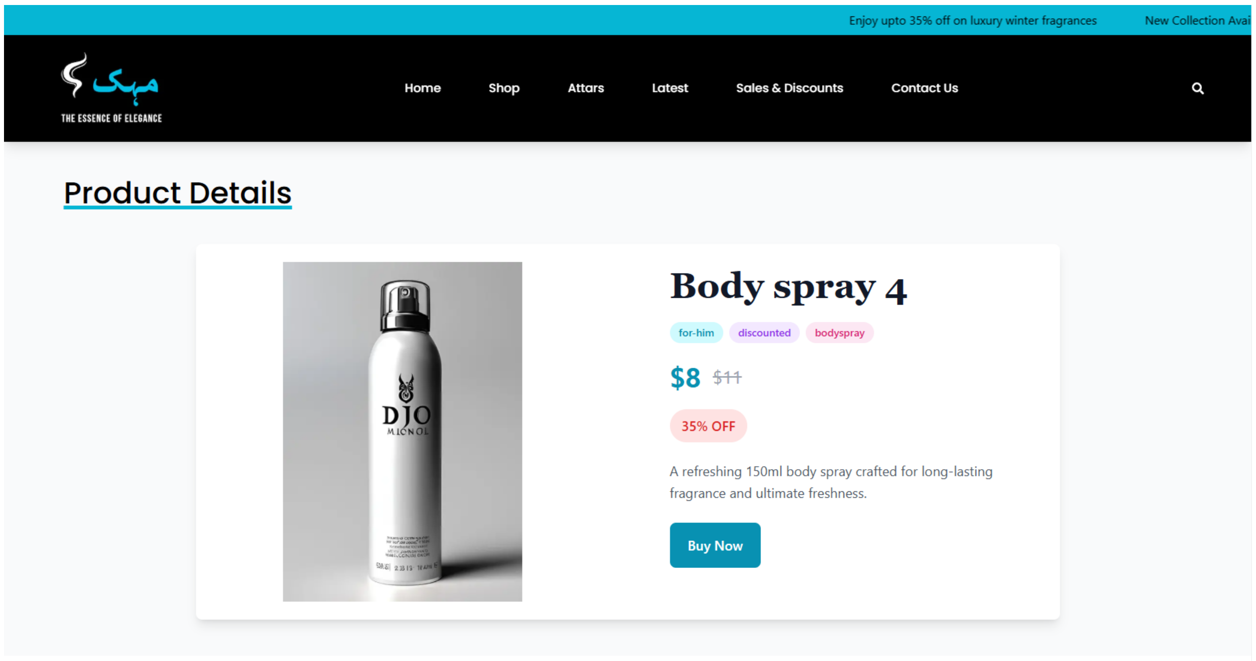
Product Details

Product 8

$18 ~~$30~~

40% OFF

A sophisticated blend of aromatic notes in a sleek 100ml bottle, perfect for the modern connoisseur.



Enjoy upto 35% off on luxury winter fragrances New Collection Avai

Product Details

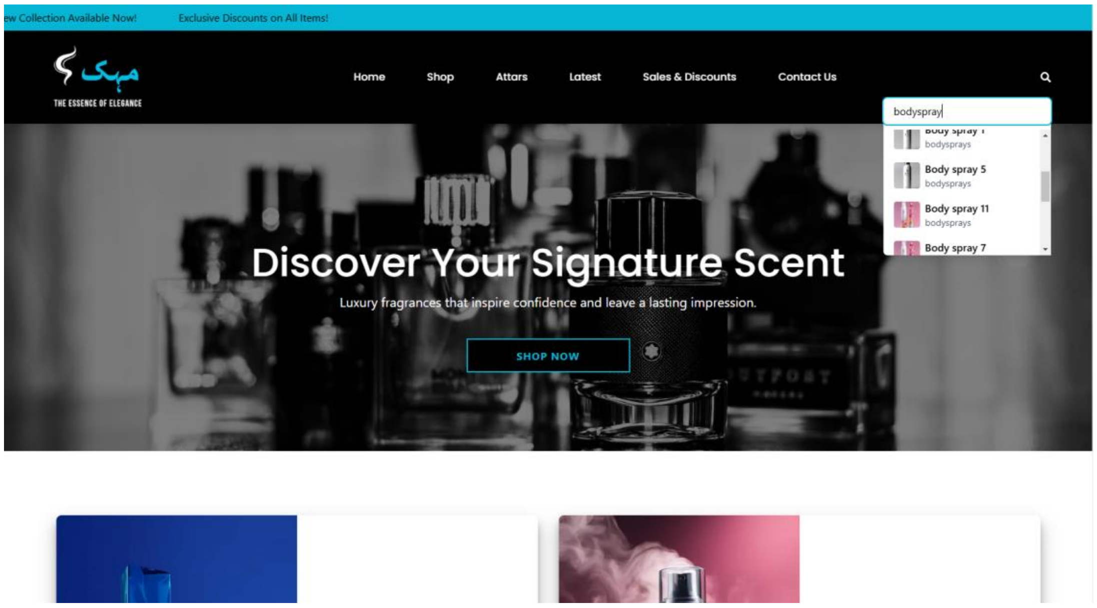
Body spray 4

$8 ~~$11~~

35% OFF

A refreshing 150ml body spray crafted for long-lasting fragrance and ultimate freshness.

3. Search Bar:


ew Collection Available Now!
Exclusive Discounts on All Items!
THE ESSENCE OF ELEGANCE
Home
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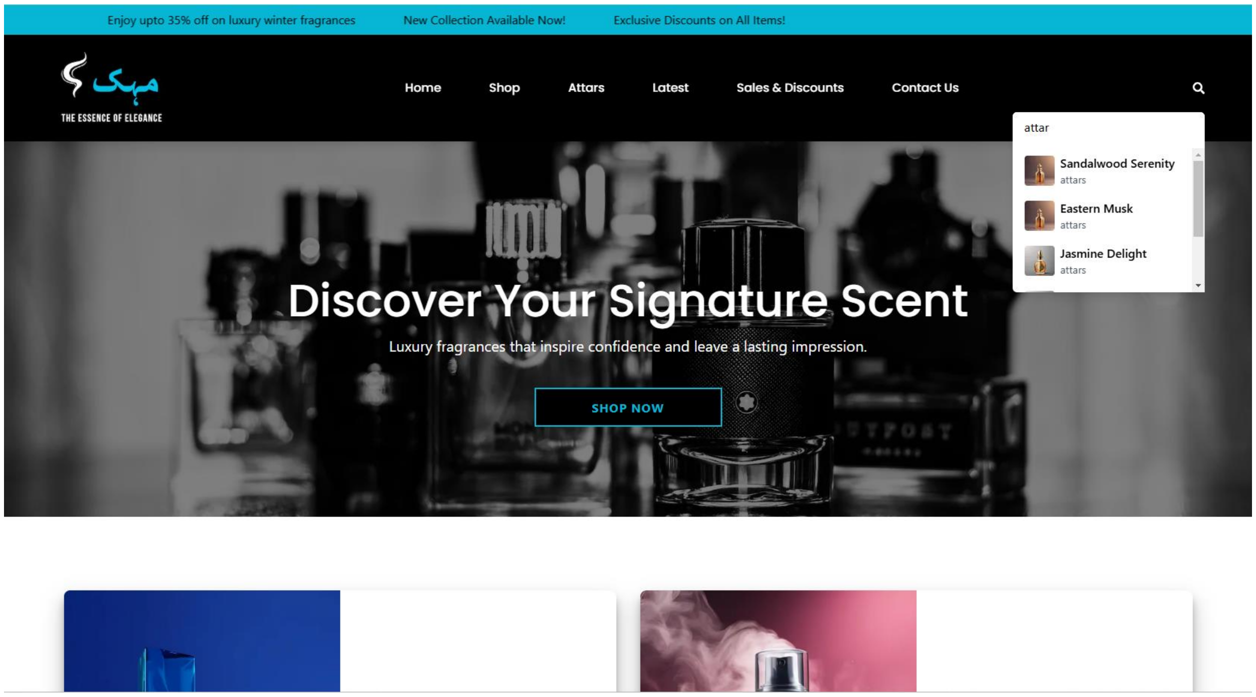
Contact Us
bodyspray
Body spray 1
bodysprays
Body spray 5
bodysprays
Body spray 11
bodysprays
Body spray 7
Discover Your Signature Scent
Luxury fragrances that inspire confidence and leave a lasting impression.
SHOP NOW


Enjoy upto 35% off on luxury winter fragrances
New Collection Available Now!
Exclusive Discounts on All Items!
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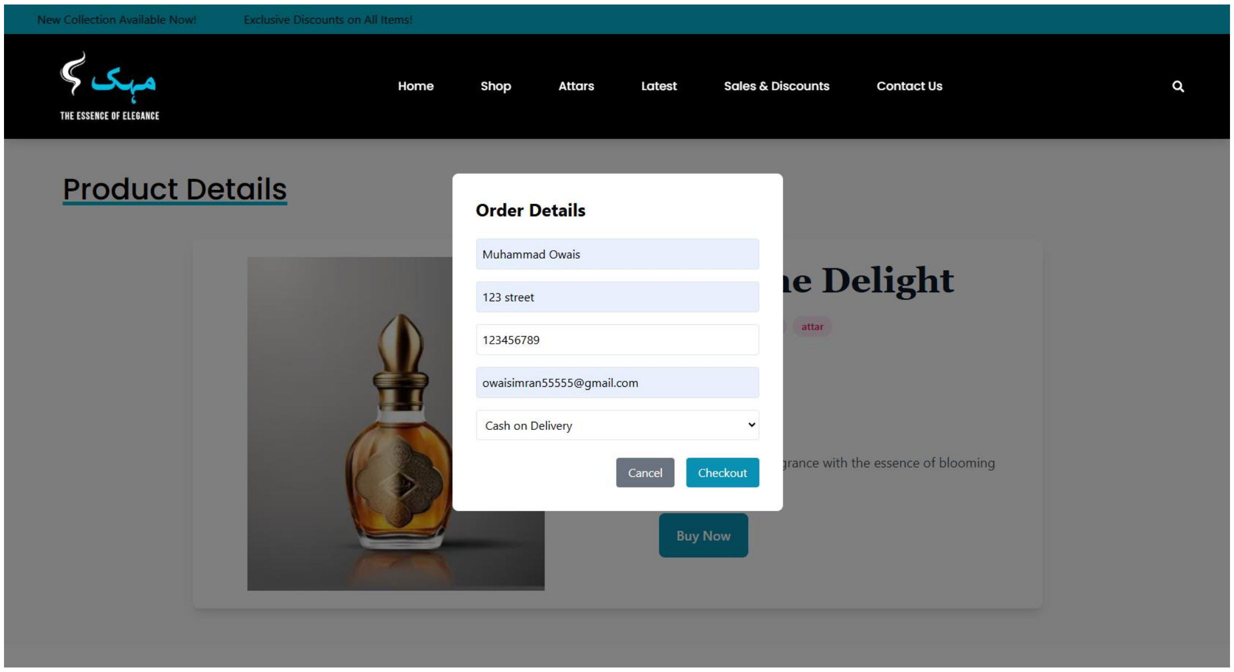
attar
Sandalwood Serenity
attars
Eastern Musk
attars
Jasmine Delight
attars
Discover Your Signature Scent
Luxury fragrances that inspire confidence and leave a lasting impression.
SHOP NOW

4. Checkout Flow Component:



Order Details

Muhammad Owais

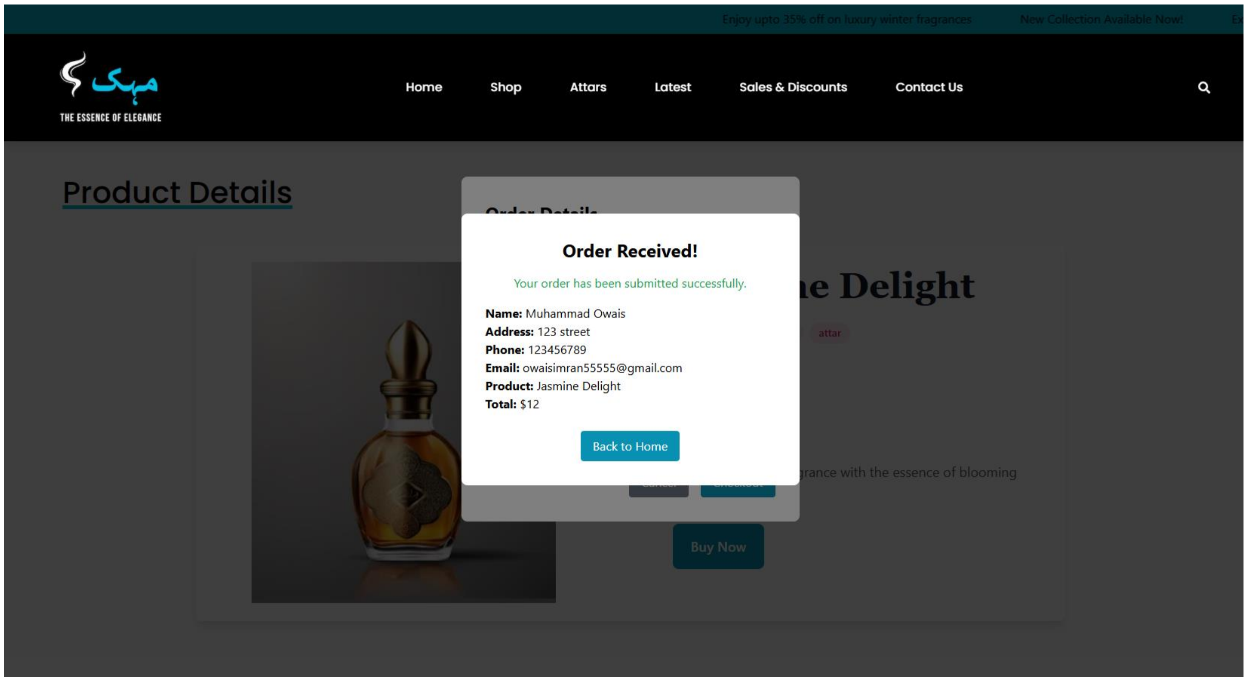
123 street

123456789

owaisimran55555@gmail.com

Cash on Delivery

Cancel Checkout


Enjoy upto 35% off on luxury winter fragrances
New Collection Available Now!
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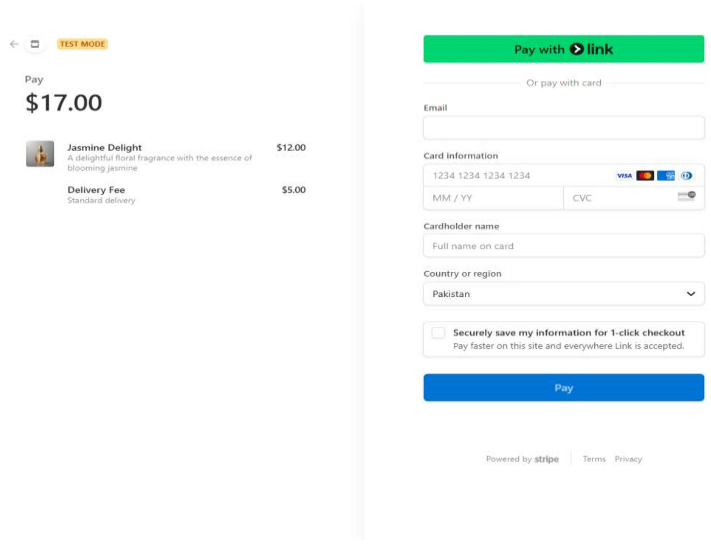
Sales & Discounts
Contact Us
Product Details
ne Delight
attar
grance with the essence of blooming
Buy Now

Order Received!

Your order has been submitted successfully.

Name: Muhammad Owais
Address: 123 street
Phone: 123456789
Email: owaisimran55555@gmail.com
Product: Jasmine Delight
Total: $12

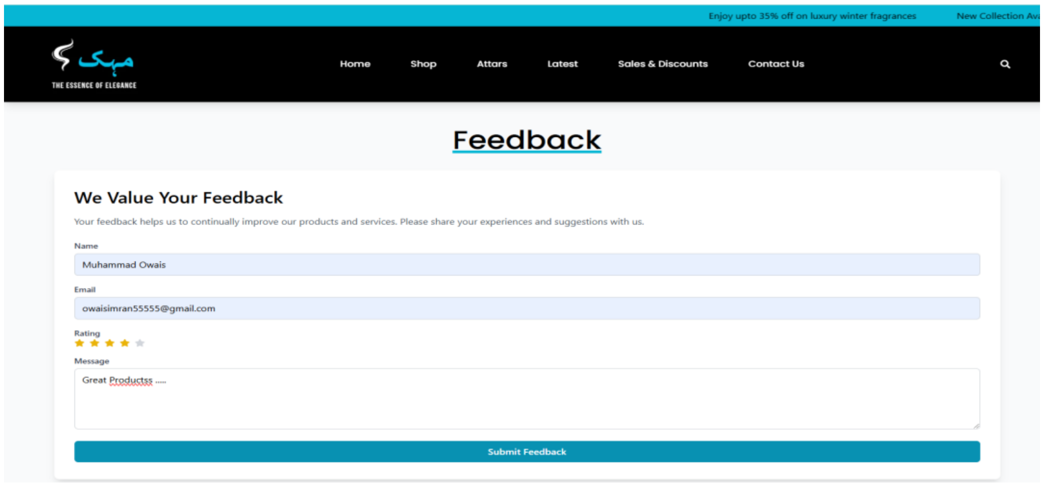
Back to Home


TEST MODE

Pay
$17.00

Jasmine Delight A delightful floral fragrance with the essence of blooming jasmine	$12.00
Delivery Fee Standard delivery	$5.00

5 . Customer Feedback Component:



Feedback

We Value Your Feedback

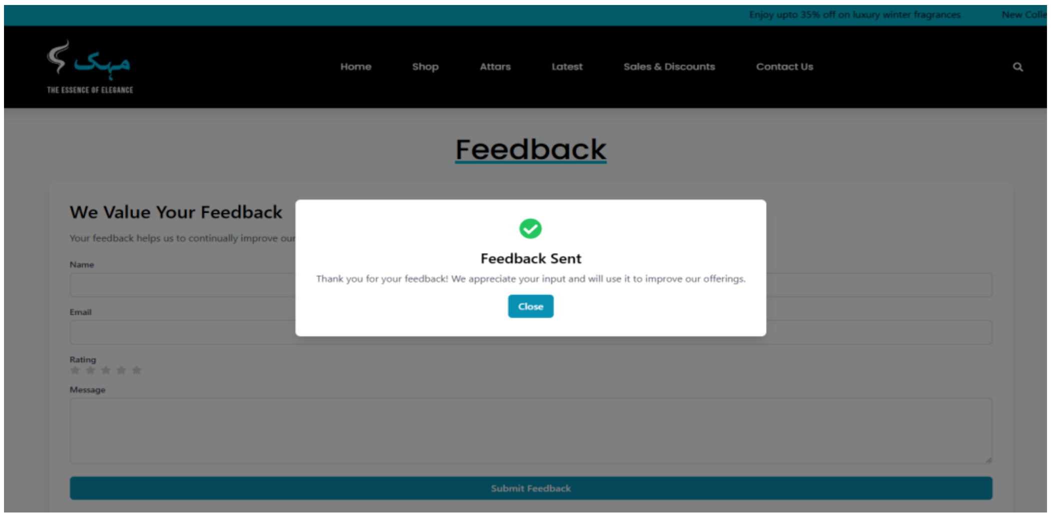
Your feedback helps us to continually improve our products and services. Please share your experiences and suggestions with us.

Name: Muhammad Owais

Email: owaisimran55555@gmail.com

Rating: ★★★★☆

Message: Great Productss .....

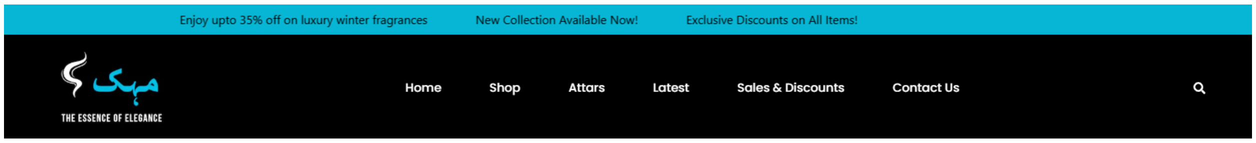


Feedback Sent

Thank you for your feedback! We appreciate your input and will use it to improve our offerings.

6. Footer and Header Components:

Header:


Enjoy upto 35% off on luxury winter fragrances
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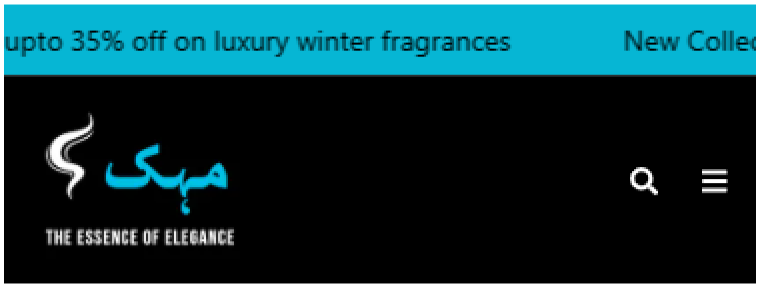
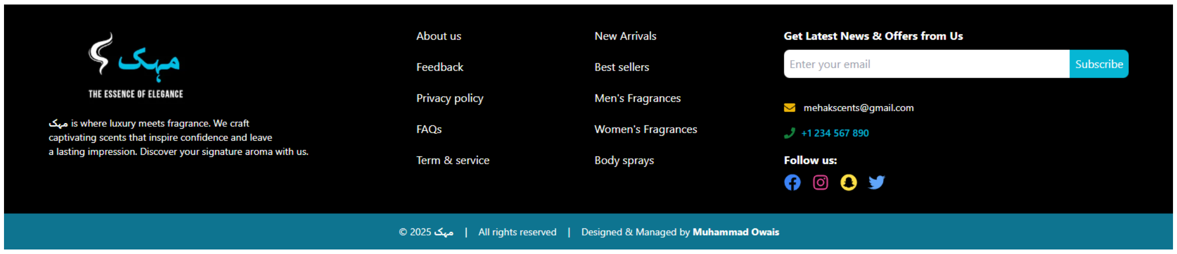


Footer:


مہک is where luxury meets fragrance. We craft captivating scents that inspire confidence and leave a lasting impression. Discover your signature aroma with us.

mehakscents@gmail.com

+1 234 567 890

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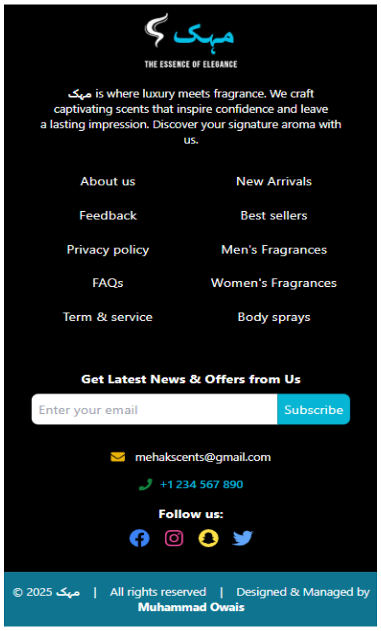
مہک is where luxury meets fragrance. We craft captivating scents that inspire confidence and leave a lasting impression. Discover your signature aroma with us.

mehakscents@gmail.com

+1 234 567 890

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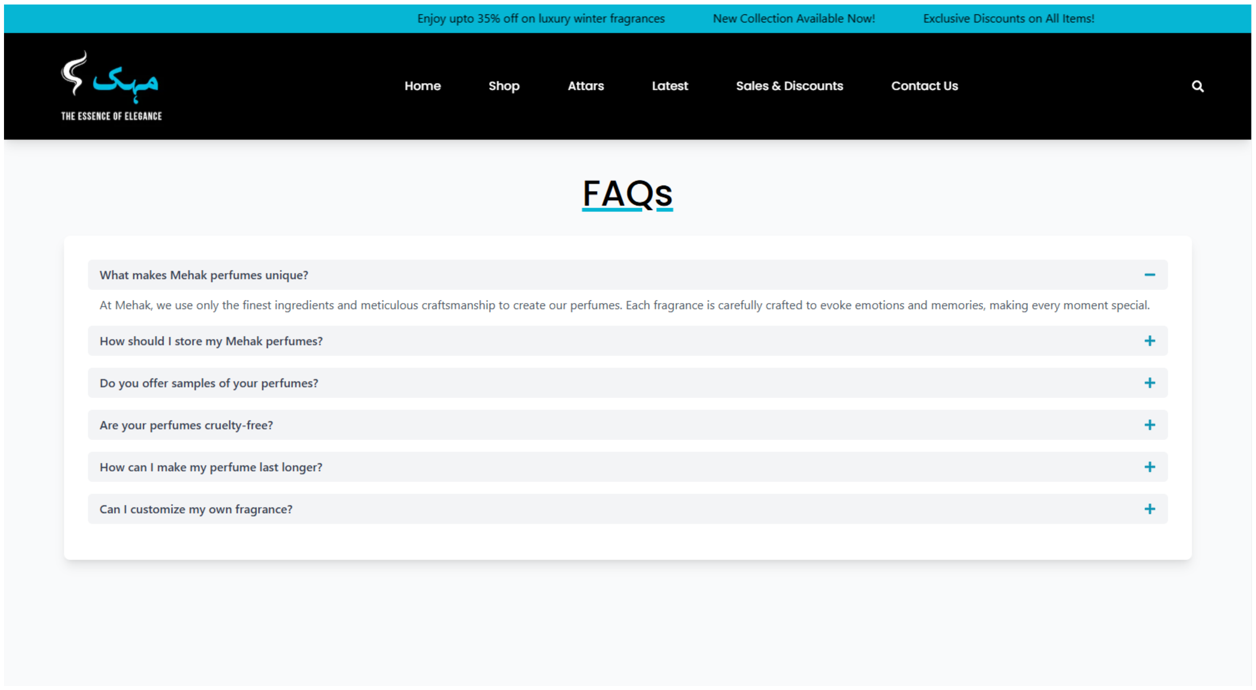
7. FAQ and Help Center Component:


Enjoy upto 35% off on luxury winter fragrances
New Collection Available Now!
Exclusive Discounts on All Items!
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FAQs

What makes Mehak perfumes unique?

At Mehak, we use only the finest ingredients and meticulous craftsmanship to create our perfumes. Each fragrance is carefully crafted to evoke emotions and memories, making every moment special.

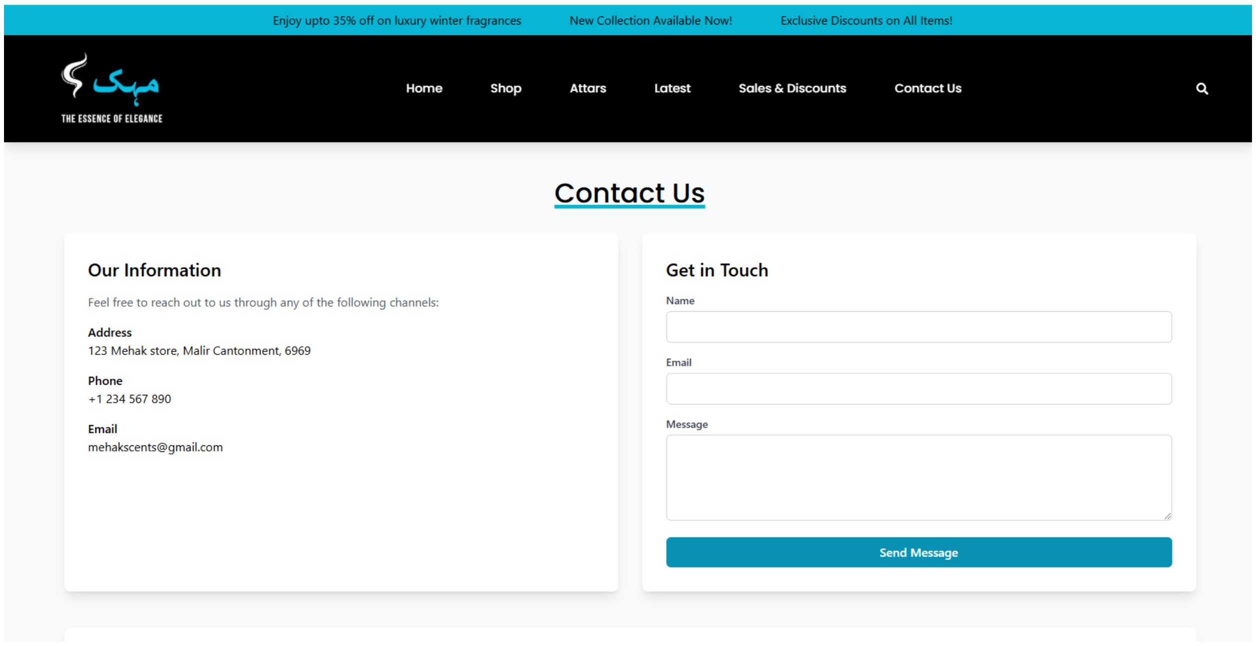
How should I store my Mehak perfumes?

Do you offer samples of your perfumes?

Are your perfumes cruelty-free?

How can I make my perfume last longer?

Can I customize my own fragrance?


Enjoy upto 35% off on luxury winter fragrances
New Collection Available Now!
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Contact Us

Our Information

Feel free to reach out to us through any of the following channels:

Address
123 Mehak store, Malir Cantonment, 6969

Phone
+1 234 567 890

Email
mehakscents@gmail.com

Get in Touch

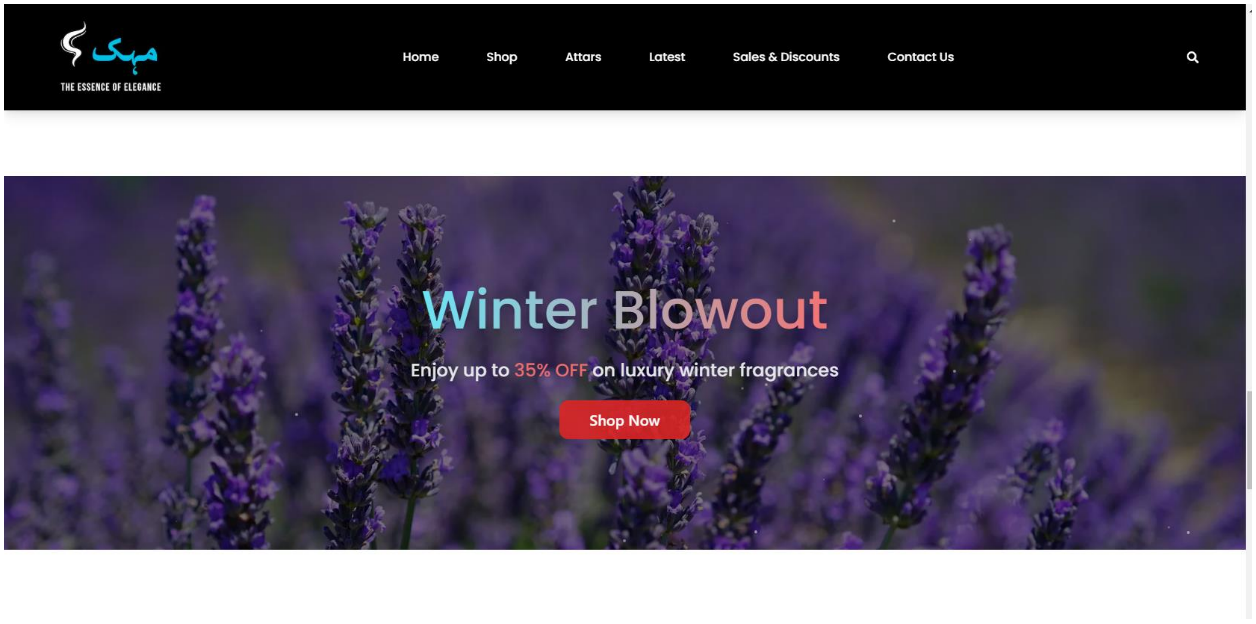
Name

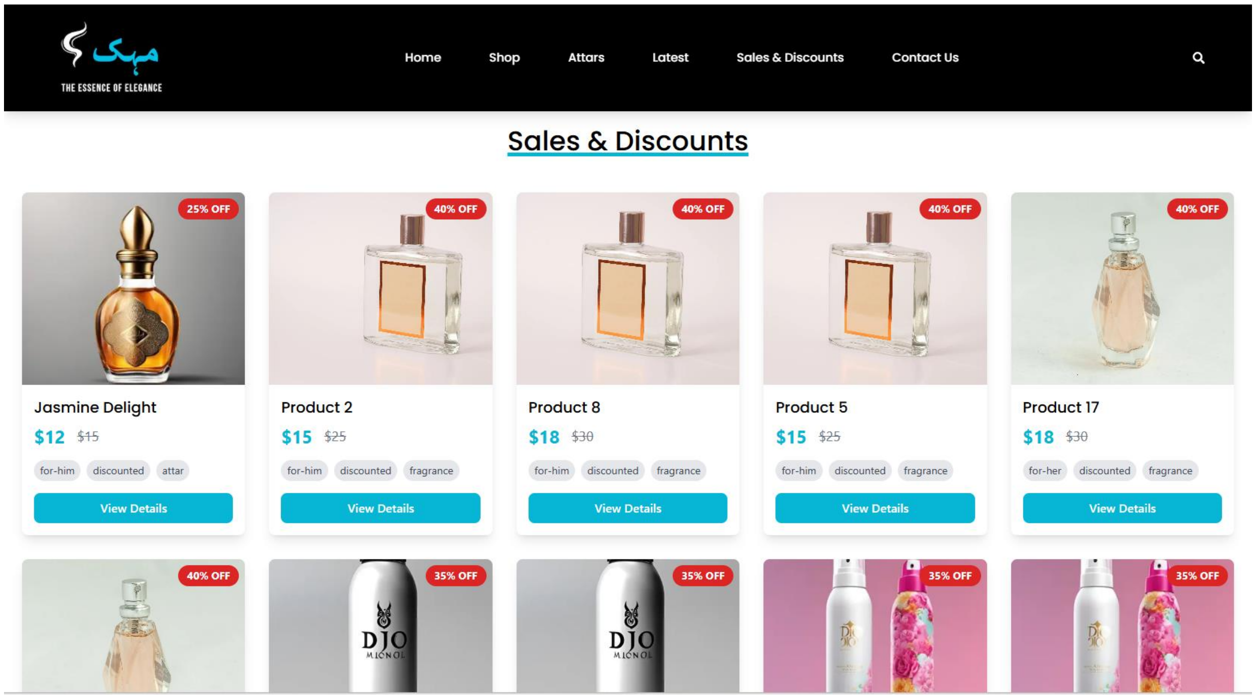
Email

Message

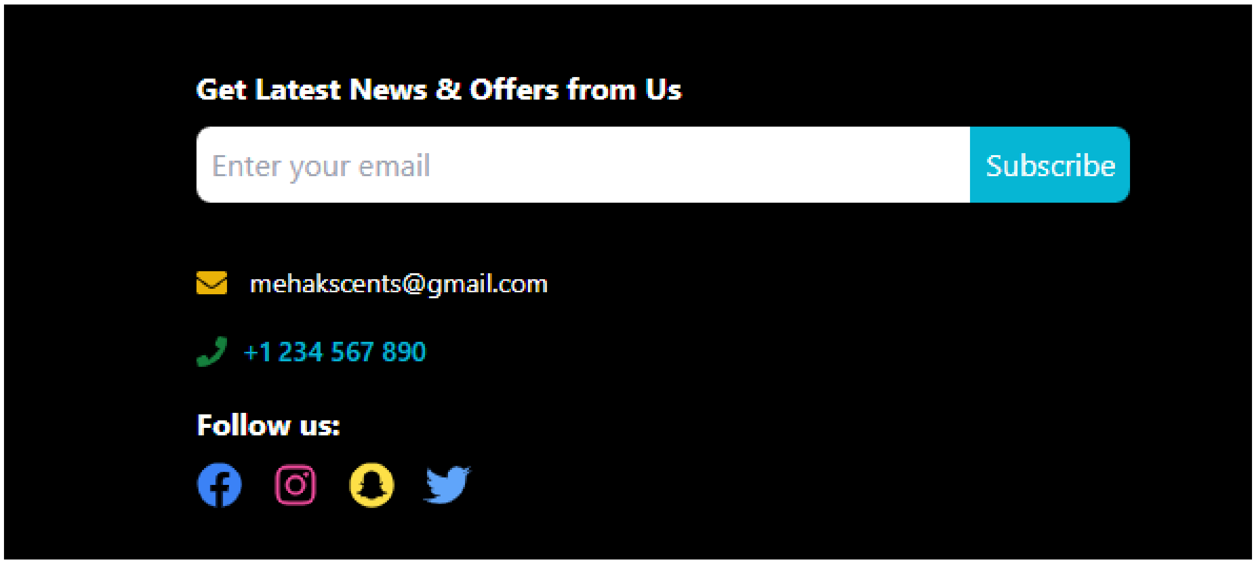
Send Message

8. Discount and Promotion Component:





9. Social Media Sharing Component:



Code snippets:

Product Card:

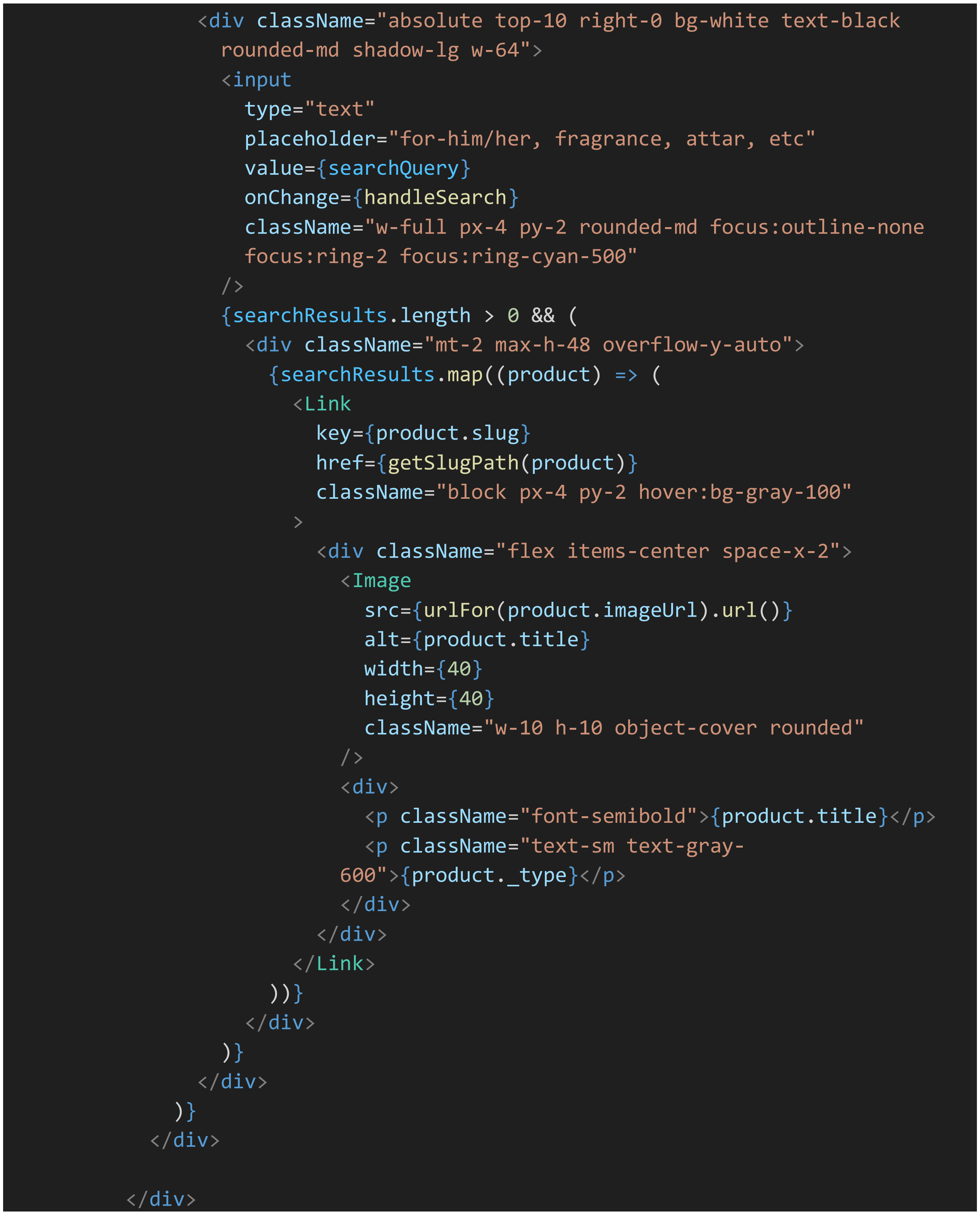
```
import { urlFor } from '@/sanity/lib/image';
import Image from 'next/image';
import Link from 'next/link';
import React from 'react';


const Fragrances = ({ fdata }: { fdata: product }) => {
  console.log(fdata.available);
  return (
    <div className="flex-1 min-w-[280px] max-w-[320px] bg-white shadow-lg
rounded-lg overflow-hidden hover:shadow-xl m-2 transform transition-transform
duration-300 hover:-translate-y-3">
        <div className="relative h-64 w-full">
          <Image
            src={urlFor(fdata.imageUrl).url()}
            alt={fdata.name}
            layout="fill"
            objectFit="cover"
            className="rounded-t-lg"
          />

          {fdata.percentOff && (
            <div className="absolute top-2 right-2 bg-red-600 text-white px-3 py-
             1 rounded-full text-sm font-bold">
              {fdata.percentOff}% OFF
            </div>
          )}
        </div>

        <div className="p-4">

          <h2 className="text-xl font-bold font-poppins mb-2">{fdata.title}</h2>


          <div className="flex items-center space-x-4 mb-4">
            <p className="text-2xl font-bold text-cyan-500">${fdata.price}</p>
            {fdata.oldprice && (
              <p className="text-lg text-gray-500 line-
               through">${fdata.oldprice}</p>
            )}
          </div>


          <div className="flex flex-wrap gap-2 mb-4">
            {fdata.tagGender && (
              <span className="bg-gray-200 text-gray-700 px-2 py-1 rounded-full
               text-sm">
                {fdata.tagGender}
              </span>
            )}
            {fdata.tagCategory && (
              <span className="bg-gray-200 text-gray-700 px-2 py-1 rounded-full
             text-sm">
                {fdata.tagCategory}
              </span>
            )}
            {fdata.tagType && (
              <span className="bg-gray-200 text-gray-700 px-2 py-1 rounded-full
               text-sm">
                {fdata.tagType}
              </span>
            )}
          </div>




<Link href={`/Product/${fdata.slug}`}>
```

```
          <button
            disabled={!Boolean(fdata.available)}
            className={`w-full px-6 py-2 rounded-lg font-semibold transition-
colors ${fdata.available
                ? "bg-cyan-500 text-white hover:bg-cyan-600"
                : "bg-red-600 text-white cursor-not-allowed hover:bg-red-600"
              }`}
          >
            {fdata.available ? "View Details" : "Out of Stock"}
          </button>

      </Link>
        </div>
    </div>
  );
};

export default Fragrances;
```

SearchBar:

```
 const [isMobileMenuOpen, setMobileMenuOpen] = useState(false);
  const [isSearchOpen, setSearchOpen] = useState(false);
  const [searchQuery, setSearchQuery] = useState('');
  const [searchResults, setSearchResults] = useState<Product[]>([]);
  const [products, setProducts] = useState<Product[]>([]);


  useEffect(() => {
    const fetchProducts = async () => {
      const fragrancesQuery = `*[_type == 'fragrances'] {
        title,
        tagGender,
        tagCategory,
        tagType,
        "slug": slug.current,
        "imageUrl": image.asset->url,
        _type
      }`;
      const bodyspraysQuery = `*[_type == 'bodysprays'] {
        title,
        tagGender,
        tagCategory,
        tagType,
        "slug": slug.current,
        "imageUrl": image.asset->url,
        _type}`;
      const attarsQuery = `*[_type == 'attars'] {
        title,
        tagGender,
        tagCategory,
        tagType,
        "slug": slug.current,
        "imageUrl": image.asset->url,
        _type}`;

      const [fragrances, bodysprays, attars] = await Promise.all([
        client.fetch<Product[]>(fragrancesQuery),
        client.fetch<Product[]>(bodyspraysQuery),
        client.fetch<Product[]>(attarsQuery),]);
      setProducts([...fragrances, ...bodysprays, ...attars]);};
    fetchProducts();}, []);

  const handleSearch = (e: React.ChangeEvent<HTMLInputElement>) => {
    const query = e.target.value;
    setSearchQuery(query);

    if (query) {
      const filteredResults = products.filter((product) => {
        const tags = [
          product.title,
          product.tagGender,
          product.tagCategory,
          product.tagType,
        ].join(' ').toLowerCase();
        return tags.includes(query.toLowerCase());
      });
      setSearchResults(filteredResults);} else {
      setSearchResults([]);}};
```

```
             <div className="flex items-center relative">
              <FaSearch
                className="cursor-pointer hover:text-cyan-500 transition-colors"
                onClick={() => setSearchOpen(!isSearchOpen)}
              />
                {isSearchOpen && (
```



```
      <div className="absolute top-10 right-0 bg-white text-black
        rounded-md shadow-lg w-64">
        <input
          type="text"
          placeholder="for-him/her, fragrance, attar, etc"
          value={searchQuery}
          onChange={handleSearch}
          className="w-full px-4 py-2 rounded-md focus:outline-none
          focus:ring-2 focus:ring-cyan-500"
        />
        {searchResults.length > 0 && (
          <div className="mt-2 max-h-48 overflow-y-auto">
            {searchResults.map((product) => (
              <Link
                key={product.slug}
                href={getSlugPath(product)}
                className="block px-4 py-2 hover:bg-gray-100"
              >
                <div className="flex items-center space-x-2">
                  <Image
                    src={urlFor(product.imageUrl).url()}
                    alt={product.title}
                    width={40}
                    height={40}
                    className="w-10 h-10 object-cover rounded"
                  />
                  <div>
                    <p className="font-semibold">{product.title}</p>
                    <p className="text-sm text-gray-
                  600">{product._type}</p>
                  </div>
                </div>
              </Link>
            ))}
          </div>
        )}
      </div>
    )}
  </div>

</div>
```

<u>Scripts or logic for API integration and dynamic routing :</u>

```
import React from "react";
import { client } from "@/sanity/lib/client";
import Fragrances from "./fragrance";

const Fs = async () => {
  const query = `*[_type == 'fragrances'] | order(_updatedAt asc) {
    name,
    "imageUrl": image.asset->url,
    title,
    price,
    oldprice,
    percentOff,
    tagGender,
    tagCategory,
    tagType,
    available,
    description,
    "slug": slug.current
  }`;


  const f_data: product[] = await client.fetch(query);
  return (
    <div>

      <h2 className="ptext text-4xl font-bold font-poppins mb-6 flex justify-
center mt-20">Fragrances</h2>

      <div className="flex flex-wrap justify-center gap-4 p-4">


        {f_data.map((fdata: product) => (

          <Fragrances fdata={fdata} key={fdata.slug} />
        ))}

      </div>
    </div>
);};

export default Fs;
```

Technical Report

1. Introduction

This report provides a detailed summary of the steps taken to build and integrate components for the perfume brand Mehak's e-commerce website. It includes an overview of the challenges faced, solutions implemented, and best practices followed during development.

2. Steps Taken to Build and Integrate Components

2.1 Integration with Sanity

- Integrated with Sanity to manage and store product data.
- Created data schemas for each product type and category (e.g., fragrances, attars, bodysprays).
- Used GROQ queries to fetch data from Sanity and display it on the frontend.

2.2 Building the Frontend

- Developed the frontend using Next.js and Tailwind CSS for styling.
- Created reusable components for displaying product details, latest products, and more.
- Ensured responsive design for a seamless user experience on both desktop and mobile devices.

2.3 Implementing Stripe for Payments

- Integrated Stripe for handling online payments.
- Created a checkout process that allows users to pay with a card or opt for cash on delivery.
- Implemented secure payment processing and order management.

2.4 Handling Slug Pages

- Created dynamic slug pages for each product category (e.g., /Product/[slug]).
- Developed functions to separate mixed categories and display the correct product details based on the slug.

3. Challenges Faced and Solutions Implemented

3.1 Creating Data Schemas

- Challenge: Defining and managing data schemas for multiple product types.

- Solution: Utilized Sanity's schema definitions to create consistent and reusable data structures.

3.2 Fetching Data from Sanity

- Challenge: Fetching data using GROQ queries and displaying it correctly on the frontend.
- Solution: Wrote efficient GROQ queries to fetch the required data and used React hooks to manage state and render the data.

3.3 Handling Dynamic Slug Pages

- Challenge: Managing mixed product categories and creating functions for dynamic slug pages.
- Solution: Developed custom functions to filter and display products based on their category and slug.

3.4 Implementing Payment Processing

- Challenge: Integrating secure payment processing with Stripe.
- Solution: Implemented Stripe's API for handling online payments and created a seamless checkout process.

3.5 Ensuring Responsive Design

- Challenge: Creating a responsive design that works well on both desktop and mobile devices.
- Solution: Used Tailwind CSS to ensure consistent styling and responsiveness across different screen sizes.

4. Best Practices Followed During Development

4.1 Code Reusability

- Developed reusable components to avoid code duplication and maintain consistency.

4.2 Modular Design

- Followed a modular design approach to keep the codebase organized and maintainable.

4.3 Performance Optimization

- Optimized performance by using efficient data fetching methods and minimizing unnecessary re-renders.

Git Repositoty for Project Code:

https://github.com/OwaisImran2005/Mehak-E-Commerce-Store

https://mehak-e-commerce-store.vercel.app/