



Project Name: “Blossom Beauty”  
Branch PG-DAC Aug-2025

Documentation On  
**“Blossom Beauty”**

PG-DAC August 2025

**Guided By: Bakul Joshi**

Submitted By:  
**Group No: 26**

- **Akanksha Subhash Gulekar**      **250843020009**
- **Sakshi Shivaji Patil**                **250843020083**
- **Shana Fatima Abdul Rab Warsi**    **250843020090**

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# **1. Introduction**

## **1.1 Document Purpose**

This document outlines the business requirements and scope for developing Blossom Beauty, a cosmetic web application. The application aims to provide a seamless online shopping experience with personalized cosmetic product recommendations based on user skin and hair concerns, along with efficient product and order management through an integrated admin dashboard. The scope of this document is to define the functional and non-functional requirements, business rules and other constraints requirements.

## **1.2 Project Background**

With the rapid growth of online shopping and increasing awareness of skincare and beauty products, there is a rising demand for platforms that offer convenience, variety, and personalization. This application is developed to provide a basic and user-friendly cosmetic shopping experience. It allows users to search for products, add selected items to the cart, and place orders smoothly. It also gives personalized recommendation based on user skin and hair concern.

## **1.3 Aim & Objective**

The aim of this project is to develop a simple and user-friendly cosmetic web application that allows users to search products, get recommended products based on user concern, add them to the cart, and purchase them easily.

- Develop a user-friendly web application.
- Enable users to search cosmetic products easily.
- Allow users to view basic product details.
- Provide functionality to add products to the cart.
- Enable users to place orders smoothly.
- Ensure a simple buying process.

## **1.4 Customers and Stakeholders**

- **Customers:**
  - Users who browse, search, and purchase cosmetic products online.
  - Customers looking for skincare, haircare, and beauty products.
  - Users who prefer an easy and convenient online shopping experience.
- **Stakeholders:**
  - Admin who manages products, categories, and inventory.

## 2. Business Requirements Overview

- **Target Platform:** Web Application
- **Business Goal:** To sell cosmetic products online in a simple and efficient manner
- **Primary Users:** Customers and Admin
- **Core Business Functions:**
  - Search the products.
  - Add products to cart and purchase products.
  - Product and order status management

## 3. Functional Requirements Overview

1. Admin Module
2. User Module

### 3.1 Admin Module:

- Admin can log in to the system securely.
- Admin can add new cosmetic products.
- Admin can update existing product details and inventory.
- Admin can delete products from the system.
- Admin can manage customer orders and update order status.

### 3.2 User Module:

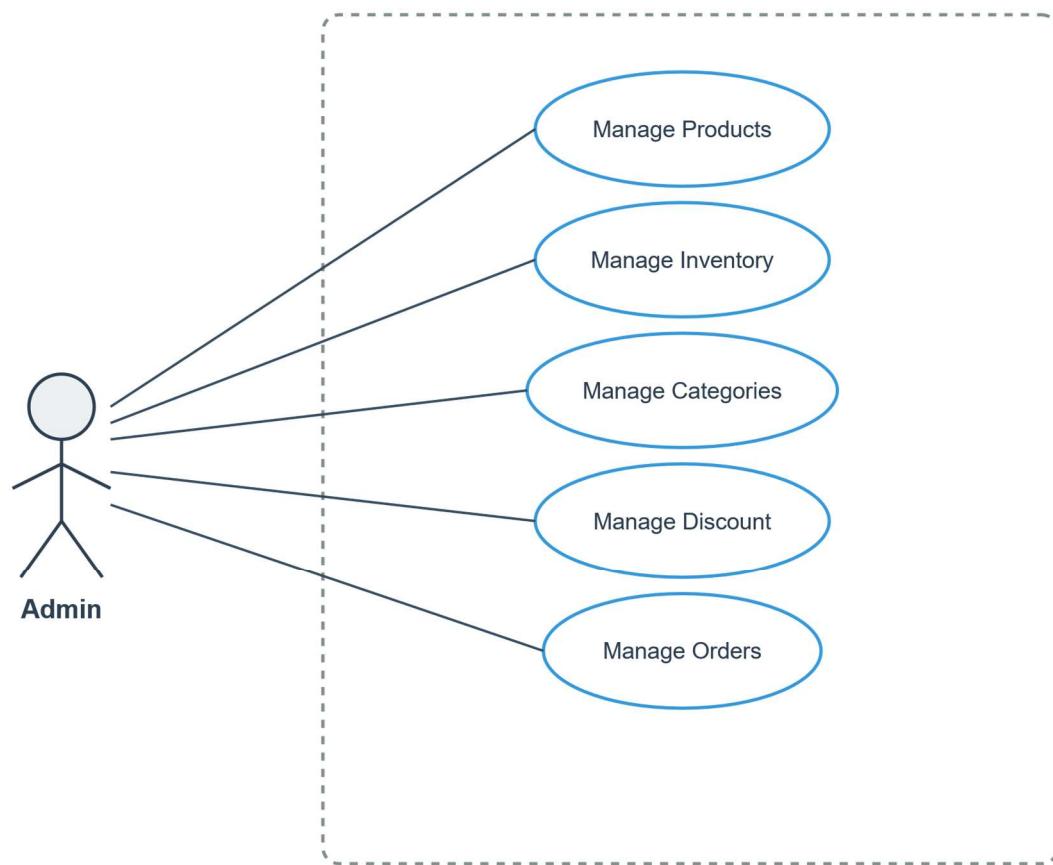
- Customers can register on the website.
- Customers can log in to the system.
- Customers can search cosmetic products.
- Customers can get product recommendation based on their skin or hair concern.
- Customers can view product details such as price, image and rating.
- Customers can add products to the cart.
- Customers can view items added to the cart.
- Customers can place orders for products.
- Customers can view order status and order history.

## **4. Non-Functional Requirement**

- Design & UI: The website should have a clean, simple, and professional design that is easy for users to understand.
- Usability: Users should be able to complete common tasks (searching, adding to cart, checkout) in minimum steps.
- Reliability: The website should run smoothly without frequent crashes.
- Maintainability: The code and structure should be easy to update and modify for future improvements.
- Performance: Pages should load within a reasonable time.
- Compatibility: The website should work properly on common browsers like Chrome, Firefox, Edge.

## 5. Use Case Diagram

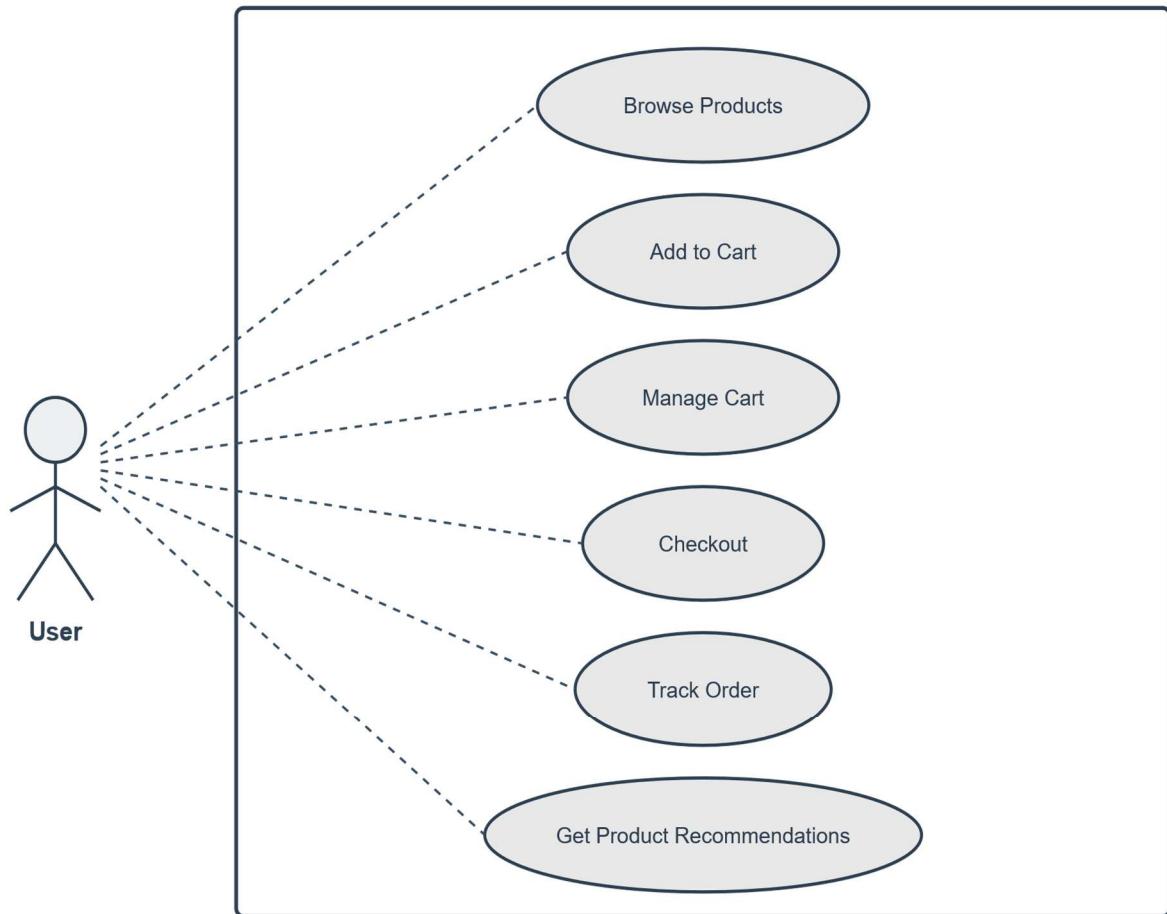
### 1. Admin:



#### Admin:

1. In Admin use diagram Admin is the Actor
2. Admin can handle the following use cases:
  - a. Login
  - b. Manage products
  - c. Manage inventory
  - d. Manage categories
  - e. Manage discount
  - f. Process orders

## 2. Customer:



### Customer:

1. In Customer use case diagram Customer is the Actor.
2. Customer can handle following use cases:
  - a. Register
  - b. Login
  - c. Browse products
  - d. Add to cart
  - e. Manage cart
  - f. Checkout
  - g. Track order
  - h. Get recommendation

## 6. Database Design

### I. Role Table

Role					
Field	Type	Null	Key	Default	Extra
role_id	INT	No	PK		Auto Increment
role_name	VARCHAR (30)	No			Unique

### II. City Table

City					
Fields	Type	Null	Key	Default	Extra
city_id	INT	No	PK		Auto Increment
city_name	VARCHAR(45)	No			

### III. Area Table

Area					
Fields	Type	Null	Key	Default	Extra
area_id	INT	No	PK		Auto Increment
area_name	VARCHAR(45)	No			
city_id	INT	No	FK		

### IV. Users Table

Users					
Field	Type	Null	Key	Default	Extra
user_id	INT	No	PK		Auto Increment
first_name	VARCHAR (45)	No			
last_name	VARCHAR (45)	No			
username	VARCHAR (45)	No			
password	VARCHAR (45)	No			
email	VARCHAR (75)	No			
contact	VARCHAR (10)	No			
status	ENUM	Yes		ACTIVE	
role_id	INT	No	FK	2	
area_id	INT	No	FK		
created_at	TIMRSTAMP	Yes			

## V. Brands Table

Brands					
Fields	Type	Null	Key	Default	Extra
brand_id	INT	No	PK		Auto Increment
brand_name	VARCHAR(50)	No			

## VI. Categories Table

Categories					
Fields	Type	Null	Key	Default	Extra
category_id	INT	No	PK		Auto Increment
category_name	VARCHAR(50)	No			

## VII. Sub categories Table

Subcategories					
Fields	Type	Null	Key	Default	Extra
subcategory_id	INT	No	PK		Auto Increment
subcategory_name	VARCHAR(50)	No			
category_id	INT	No	FK		

## VIII. Coupon Table

Coupon					
Field	Type	Null	Key	Default	Extra
coupon_id	BIGINT	No	PK		Auto Increment
code	VARCHAR (50)	No			
discount_type	VARCHAR(20)	No			
discount_value	DECIMAL(10,2)	No			
min_cart_value	DECIMAL(10,2)	Yes		0.00	
expiry_date	DATE	Yes		NULL	
active	TINYINT(1)	Yes		1	

## IX. Products Table

Products					
Field	Type	Null	Key	Default	Extra
product_id	BIGINT	No	PK		Auto Increment
product_name	VARCHAR(45)	No			
description	TEXT	Yes		NULL	
price	DECIMAL(10,2)	No			
stock	INT	Yes		0	
brand_id	BIGINT	No	FK		
subcategory_id	BIGINT	No	FK		
status	ENUM	Yes		ACTIVE	
created_at	TIMESTAMP	Yes			
updated_at	TIMESTAMP	Yes			
image_url	VARCHAR(255)	No			

## X. Cart Table

Cart					
Field	Type	Null	Key	Default	Extra
cart_id	BIGINT	No	PK		Auto Increment
user_id	BIGINT	No	FK		
total_amount	DECIMAL(10,2)	Yes		0.00	
discount_type	VARCHAR(45)	Yes		NULL	
discount_value	DECIMAL(10,2)	Yes		0.00	
final_amount	DECIMAL(10,2)	Yes		0.00	
created_at	TIMESTAMP	Yes			
updated_at	TIMESTAMP	Yes			
coupon_code	VARCHAR(45)	Yes	FK	NULL	

## XI. Cart items Table

Cartitems					
Field	Type	Null	Key	Default	Extra
cart_item_id	BIGINT	No	PK		Auto Increment
cart_id	BIGINT	No	FK		
product_id	BIGINT	No			
product_name	VARCHAR (255)	No			
price	DECIMAL (10,2)	No			
quantity	INT	No		1	
subtotal	DECIMAL (10,2)	No			
created_at	TIMESTAMP	Yes			
updated_at	TIMESTAMP	Yes			

## XII. Orders Table

Orders					
Field	Type	Null	Key	Default	Extra
order_id	BIGINT	No	PK		Auto Increment
user_id	BIGINT	No	FK		
total_amount	DECIMAL (10,2)	No			
final_amount	DECIMAL (10,2)	No			
order_status	ENUM	Yes		CREATED	
created_at	TIMESTAMP	Yes			
updated_at	TIMESTAMP	Yes			
payment_method	VARCHAR (20)	No		COD	

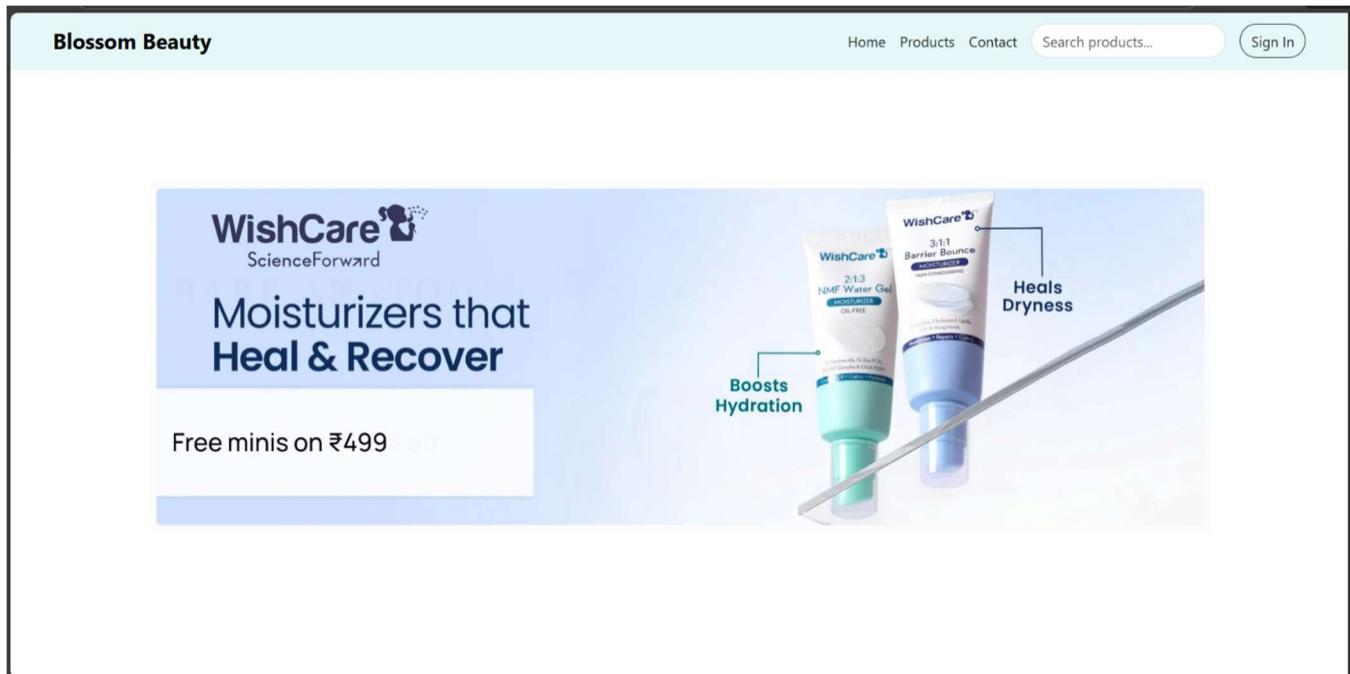
## XIII. Order items Table

Orderitems					
Field	Type	Null	Key	Default	Extra
order_item_id	BIGINT	No	PK		Auto Increment
order_id	BIGINT	No	FK		
product_id	BIGINT	No	FK		
product_name	VARCHAR (255)	No			
price	DECIMAL (10,2)	No			
quantity	INT	No		1	
subtotal	DECIMAL (10,2)	Yes			

## 8.Snapshots:

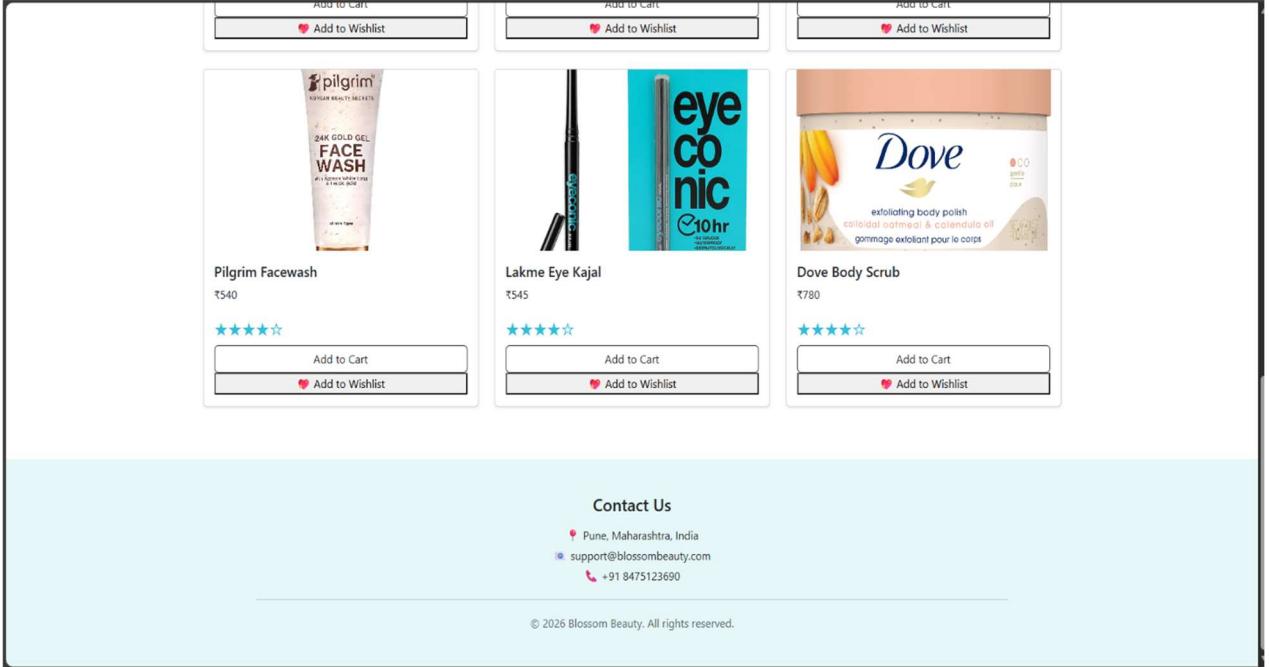
### 8.1 Home Page:

Following snapshot shows the **Home Page** for Blossom application before Login. User can navigate to Registration and Login page from Home Page.



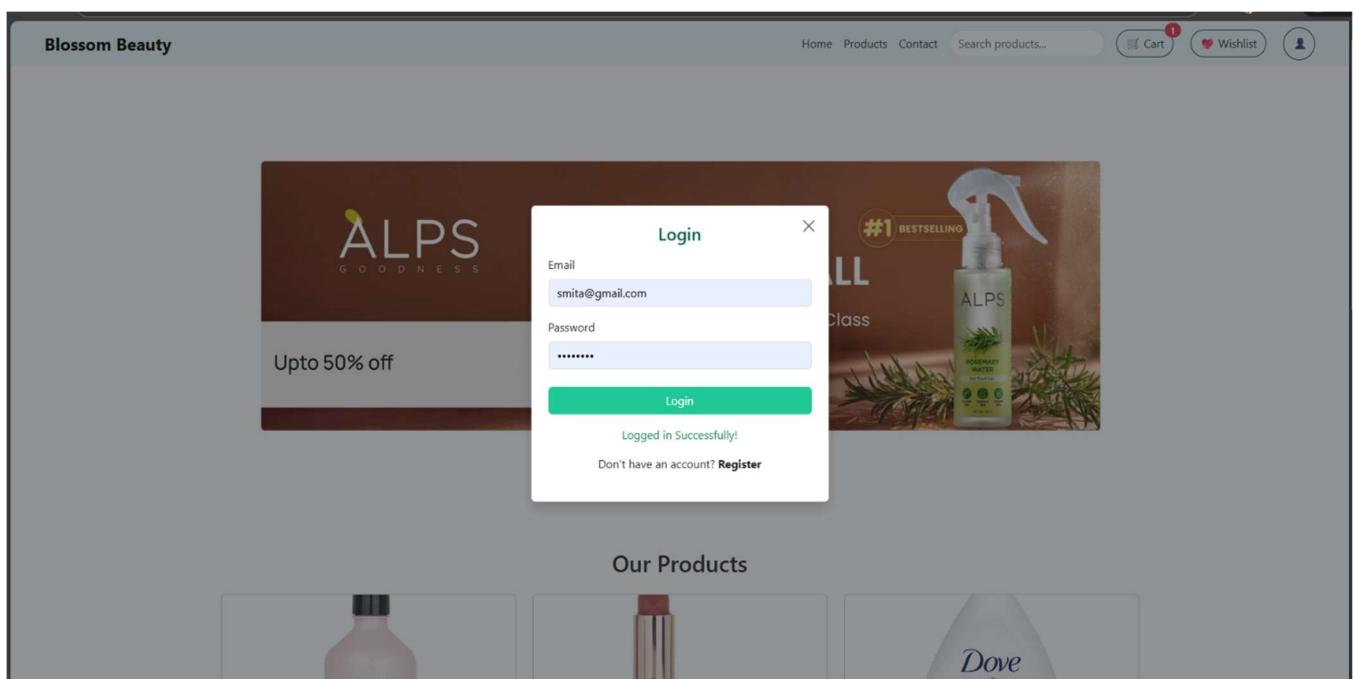
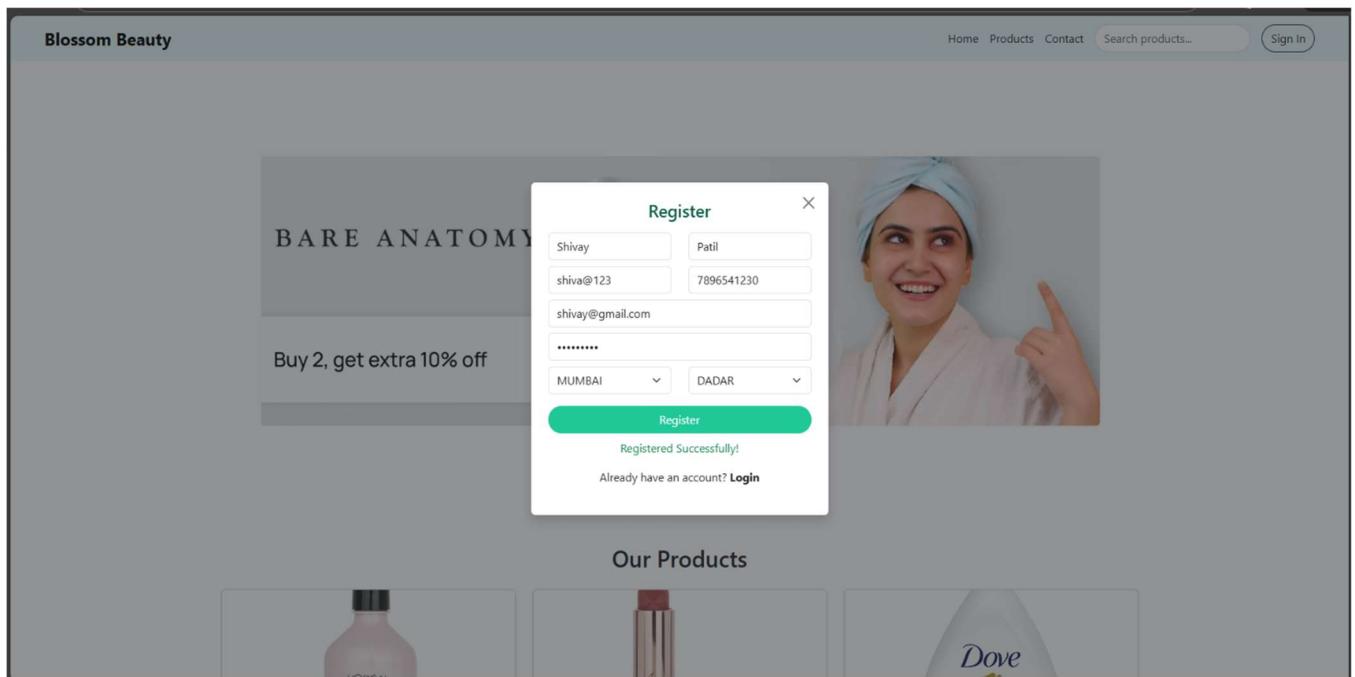
The screenshot shows a grid of product cards under the heading 'Our Products'. The products are arranged in two rows of four. Each card includes a product image, name, price, star rating, and two buttons: 'Add to Cart' and 'Add to Wishlist'. The products listed are:

- TotalRepair Shampoo (L'Oréal Vitamino Color) - ₹500
- Lakme Lipstick - ₹4500
- Dove Bodywash (go fresh cucumber & green tea) - ₹800
- Pilgrim Facewash (24K GOLD GEL FACE WASH) - ₹540
- Lakme Eye Kajal - ₹545
- Dove Body Scrub (exfoliating body polish oatmeal & calendula oil) - ₹780



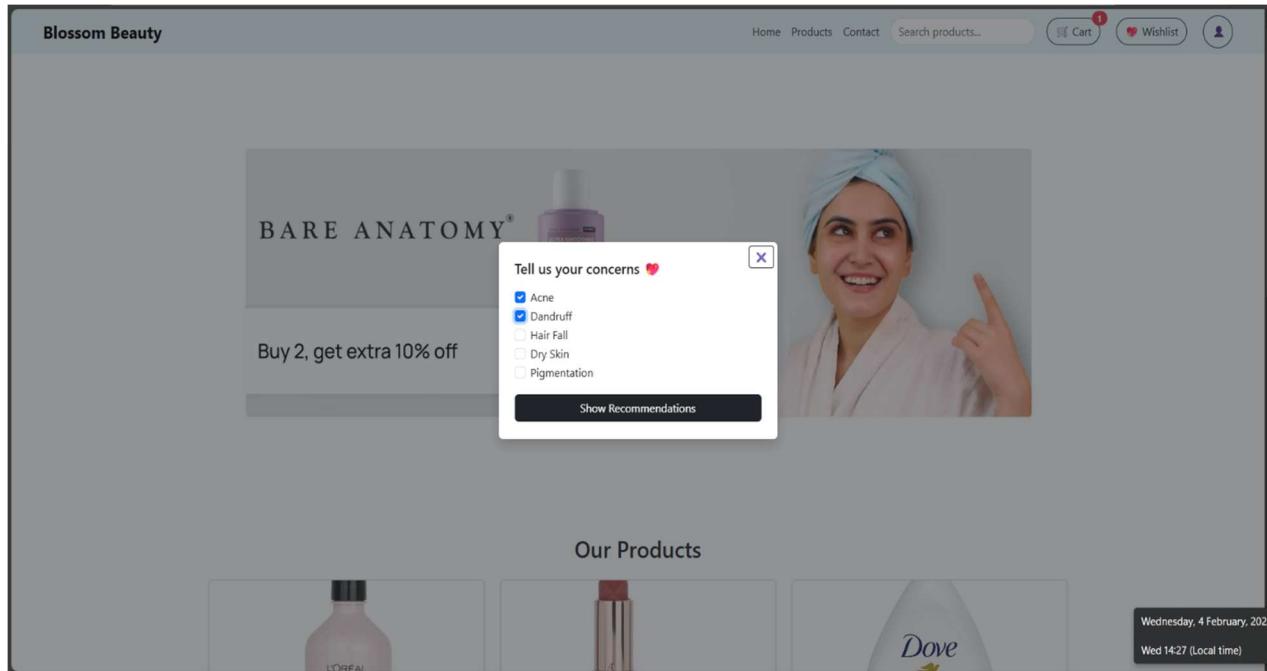
## 8.2 Registration and Login Page:

Customer can register or login by navigating to registration or login page.

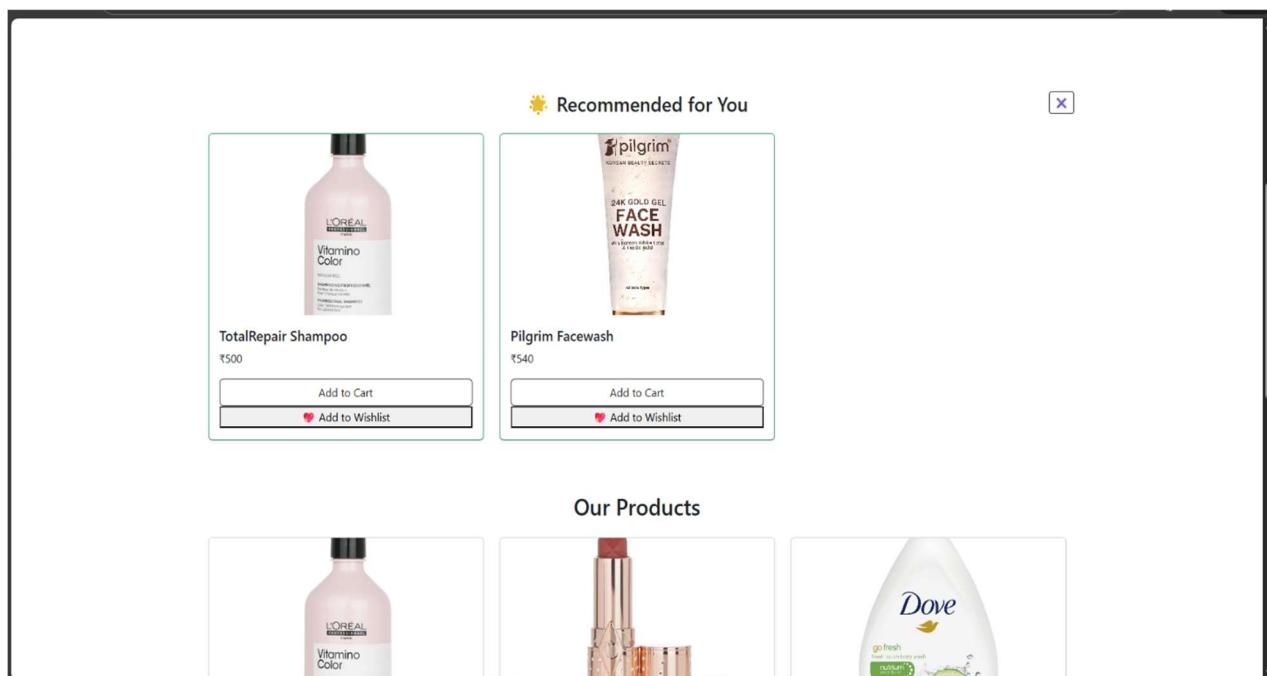


### 8.3 Product recommendation based on user concern

User can choose their concern to get products based on that.



User can see recommended products based on their concern.



## 8.4 User cart

User can add products to cart.

My Cart

Coupon applied! Final amount ₹1656

Dove Bodywash ₹800 <input type="button" value="−"/> <input type="text" value="1"/> <input type="button" value="+"/>	₹800 <input type="button" value="Remove"/>
TotalRepair Shampoo ₹500 <input type="button" value="−"/> <input type="text" value="1"/> <input type="button" value="+"/>	₹500 <input type="button" value="Remove"/>
Pilgrim Facewash ₹540 <input type="button" value="−"/> <input type="text" value="1"/> <input type="button" value="+"/>	₹540 <input type="button" value="Remove"/>

Only one Coupon is Applicable At a Time

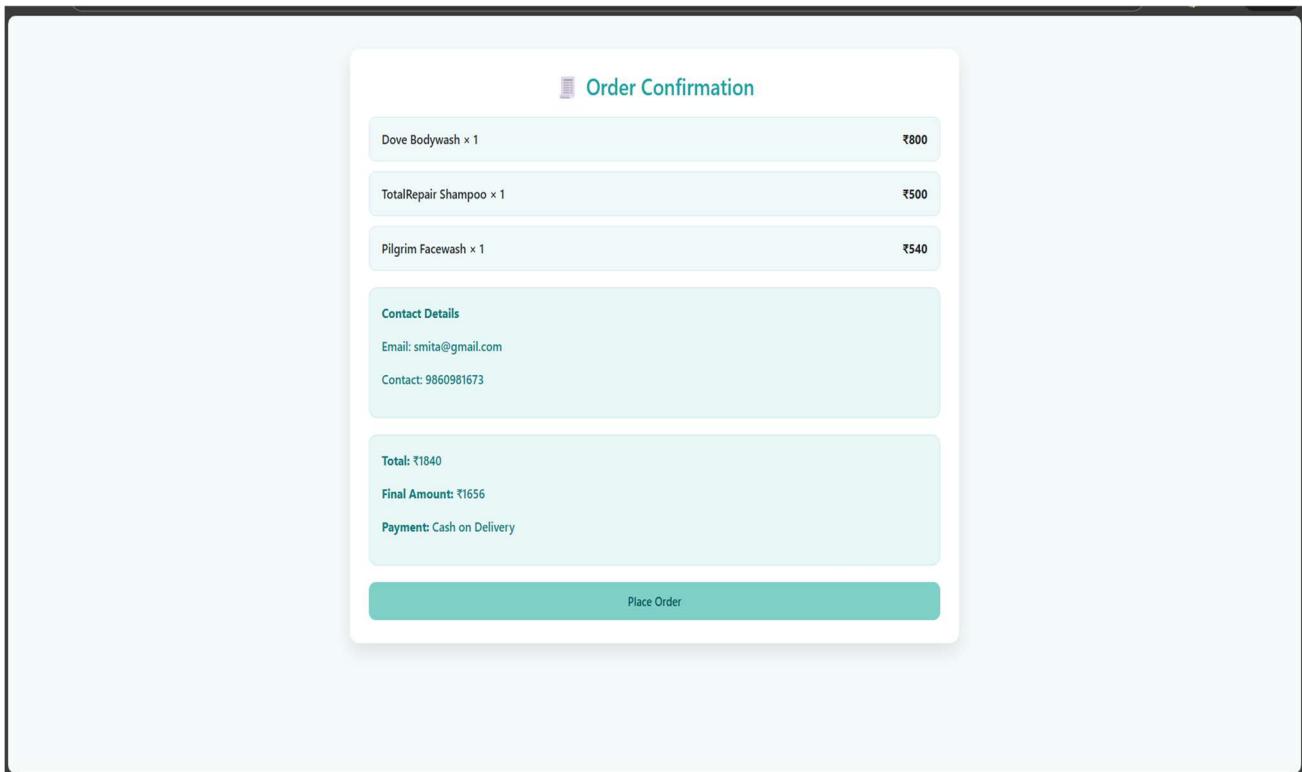
Available Coupons

- WELCOME10 - 10% (Min ₹1000)
- FLAT50 - ₹50 (Min ₹500)
- NEWYEAR20 - 20% (Min ₹5000)
- SUMMER100 - ₹100 (Min ₹6000)

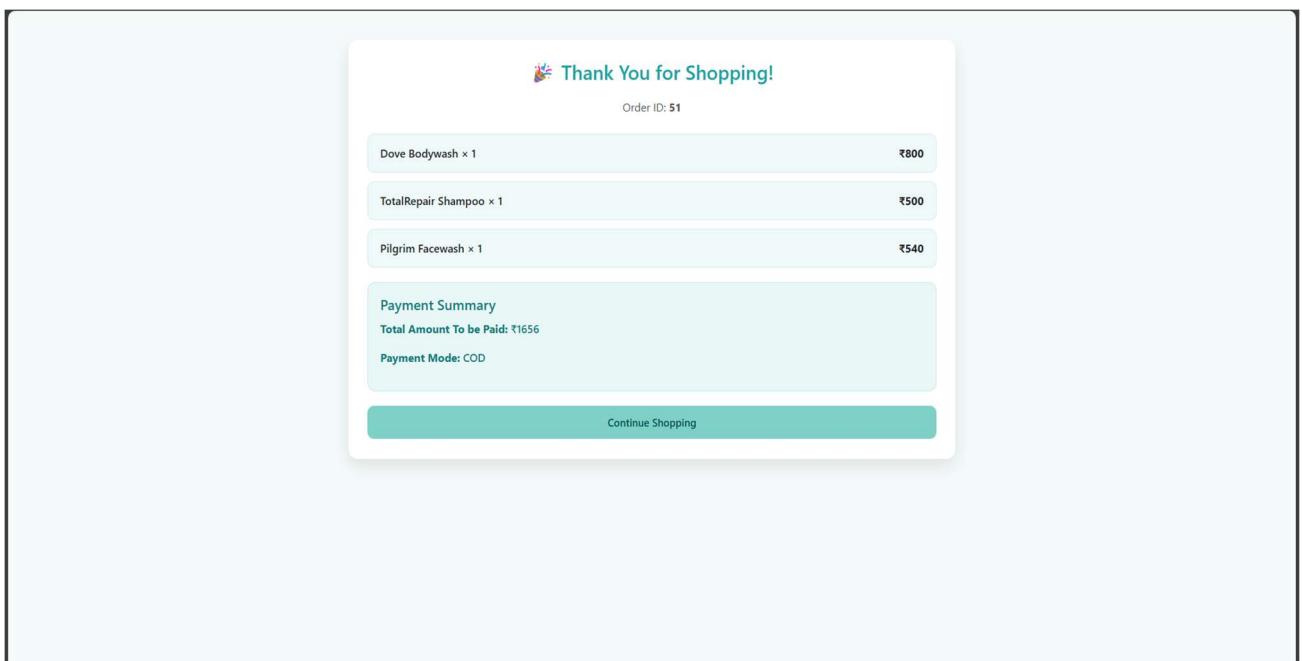
Total ₹1840	₹1656
<input type="button" value="Proceed"/>	

## 8.4 Order confirmation

User can convert cart items into orders.



User has placed the order.



## 8.5 Order history

User can see order history in My Orders.

The screenshot shows the homepage of the Blossom Beauty website. At the top, there's a navigation bar with links for Home, Products, Contact, a search bar, a Cart icon, a Wishlist icon, and a user profile icon. A sidebar on the right shows a login email (smita@gmail.com), a 'My Orders' button, and a Logout link. The main content area features a large promotional banner for 'BARE ANATOMY' hair care products, including a purple bottle and a blue jar. Below the banner, a woman in a white robe and blue turban points upwards. A text overlay says 'Buy 2, get extra 10% off'. Underneath the banner, there's a section titled 'Our Products' with three thumbnail images: a pink L'Oréal bottle, a red Lakme lipstick, and a Dove bodywash bottle. A 'Show desktop' button is located in the bottom right corner of this section.

The screenshot shows the 'My Orders' page. It lists four previous orders:

- Order ID: 25** (Status: DISPATCHED)  
Payment: COD  
Lakme Lipstick x 1  
Pilgrim Facewash x 1  
Total: ₹5040  
Buttons: View Invoice, Cancel Order
- Order ID: 27** (Status: CANCELLED)  
Payment: COD  
Lakme Lipstick x 1  
Total: ₹4050  
Buttons: View Invoice, Cancel Order
- Order ID: 30** (Status: CREATED)  
Payment: COD  
TotalRepair Shampoo x 1  
Lakme Lipstick x 1  
Total: ₹4950  
Buttons: View Invoice, Cancel Order
- Order ID: 51** (Status: CREATED)  
Payment: COD  
Dove Bodywash x 1  
TotalRepair Shampoo x 1  
Total: ₹800  
Buttons: View Invoice, Cancel Order

## 8.6 Admin Home Page:

Admin Dashboard after login.

### Admin Dashboard

Logout

Products Management

Name

Price

Stock

Brand ID

SubCat ID

Add

ID	Name	Price	Stock	Status	Actions
1	TotalRepair Shampoo	500	4	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
2	Lakme Lipstick	4500	100	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
3	Dove Bodywash	800	101	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
4	Pilgrim Facewash	540	60	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
7	Lakme Eye Kajal	545	80	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
8	Dove Body Scrub	780	12	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>

### Orders Management

Order ID	User ID	Status
25	2	Select Status
27	2	Select Status
28	3	Select Status
30	2	Select Status
46	1	Select Status

2	Lakme Lipstick	4500	100	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
3	Dove Bodywash	800	101	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
4	Pilgrim Facewash	540	60	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
7	Lakme Eye Kajal	545	80	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>
8	Dove Body Scrub	780	12	ACTIVE	<button style="border: 1px solid #ffc107; border-radius: 5px; padding: 2px 5px;">Edit</button> <button style="border: 1px solid red; border-radius: 5px; padding: 2px 5px;">Delete</button>

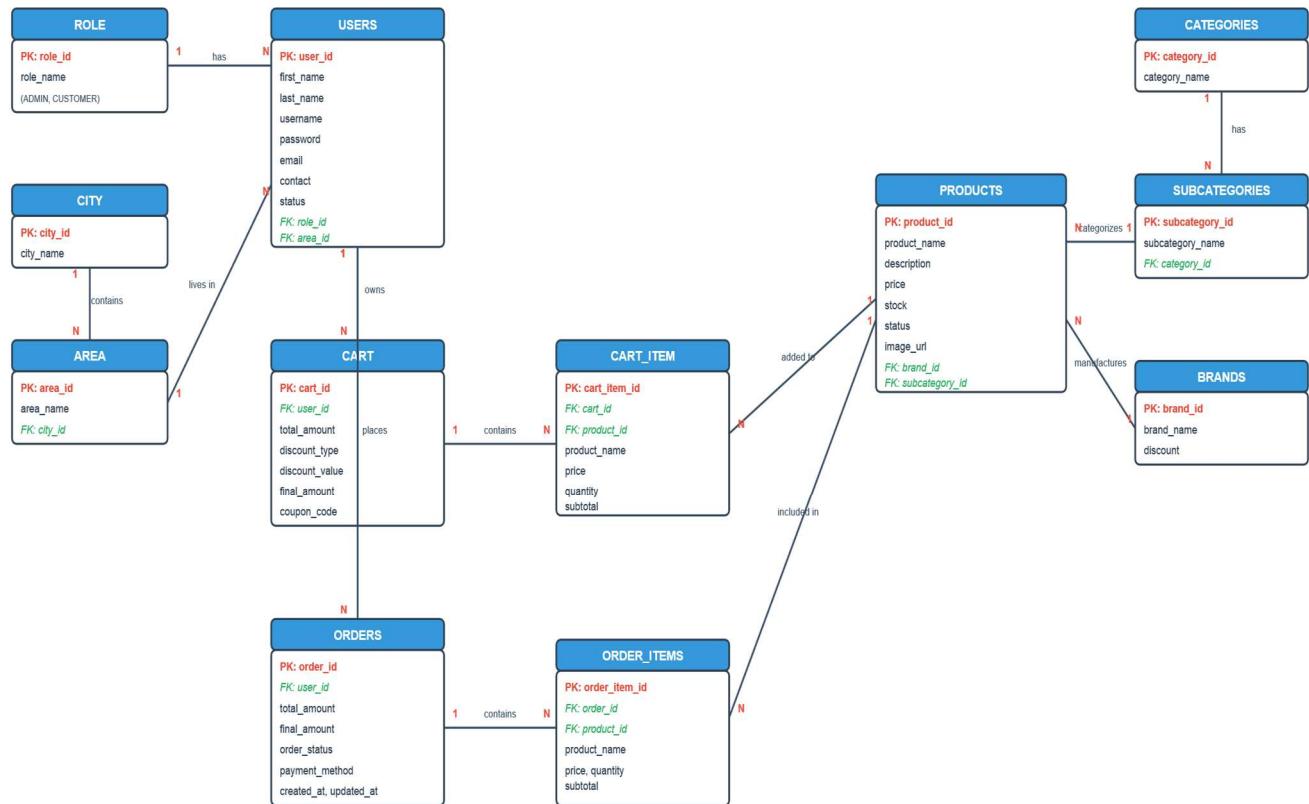
  

### Orders Management

Order ID	User ID	Status
25	2	Select Status
27	2	Select Status DISPATCHED DELIVERED CANCELLED
28	3	Select Status
30	2	Select Status
46	1	Select Status
47	1	Select Status
48	16	Select Status
49	17	Select Status
50	17	Select Status
51	2	Select Status

## 9.ER diagram

Blossom Beauty - Entity Relationship Diagram



**Legend**

- PK = Primary Key
- FK = Foreign Key
- = Relationship
- 1 = One (Cardinality)
- N = Many (Cardinality)

Database: p26\_blossombeauty | 12 Tables | E-Commerce System

## Conclusion

The “Blossom Beauty” application aims to provide a convenient and personalized online shopping experience for cosmetic and beauty products. By offering features such as product search, product browsing, product recommendations based on skin and hair concerns, add to cart, order placement, and the application targets users looking for suitable beauty products, especially focusing on female customers. With a user-friendly interface, efficient order management, and an admin module for managing products and inventory, the system helps simplify the online shopping process and enhances customer satisfaction.