

## COZASTORE FACIAL WEBSITE

### A PROJECT REPORT

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in partial fulfillment for award of the degree of

**Bachelor Of Computer Applications**



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## **ACKNOWLEDGEMENT**

**Project Title:** COZASTORE Facial Website.

**Project Group ID:** BCA22I006

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### **Project Members:**

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**Date-**     /     /2025

**Department of Computational Sciences**  
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## **ABSTRACT**

In today's digital era, the demand for personalized skincare solutions has significantly increased due to growing awareness of self-care and dermatological health. Our group project, CozaStore, is an innovative and interactive e-commerce platform dedicated to skincare products. The website aims to bridge the gap between consumers and high-quality skincare essentials by providing a user-friendly interface, curated product listings, and informative content to guide customers in making informed decisions.

CozaStore is designed to cater to a diverse range of skin types and concerns, integrating features such as skin analysis quizzes, product recommendations, customer reviews, and educational blogs. The platform ensures a seamless shopping experience with secure payment gateways, responsive design for mobile and desktop, and easy navigation. Furthermore, it promotes eco-friendly and dermatologically tested products to encourage conscious beauty practices.

This project not only focuses on creating a visually appealing and functional website but also emphasizes backend integration for product management, user authentication, and real-time order tracking. By combining modern UI/UX design principles with practical e-commerce functionality, CozaStore serves as a complete digital solution for skincare enthusiasts.

## TABLE OF CONTENTS

Chapter	Title	Page NO.
1	Introduction	1
2	Objective	2
3	Planning	3-4
4	Designing	5
5	Development	6-7
6	Testing	8-9

## **CHAPTER 1**

### **Introduction**

The skincare industry has witnessed tremendous growth in recent years, driven by increasing awareness about self-care, beauty, and wellness. Women, in particular, have shown a significant interest in maintaining healthy skin by using a variety of skincare products. This project focuses on developing an innovative platform that provides comprehensive information about women's skincare products, catering to different skin types, concerns, and age groups.

In today's fast-paced world, women face several skincare challenges due to environmental factors, lifestyle habits, and lack of knowledge about suitable products. The project aims to address these challenges by offering a personalized and user-friendly solution that educates users about the right skincare routines and products.

The platform will feature a detailed catalog of skincare products, including cleansers, moisturizers, serums, sunscreens, and more. It will also provide recommendations based on individual skin types, helping users make informed choices to achieve healthier and more radiant skin. Additionally, the project will focus on highlighting the importance of natural and sustainable skincare solutions to promote eco-friendly practices within the beauty industry.

By incorporating modern web technologies and an intuitive design, this project aims to create a platform that not only informs but also empowers women to take control of their skincare routines. The solution will serve as a reliable guide to skincare, offering valuable insights into product ingredients, benefits, and best practices for achieving long-term skin health.

## CHAPTER 2

### Objective

The primary objective of this project is to develop a comprehensive platform that helps women make informed decisions about skincare products based on their unique skin types and concerns. The project aims to promote skin health by providing personalized skincare recommendations, product reviews, and ingredient insights to enhance users' understanding of effective skincare routines.

The specific objectives of the project are:

1. **To create a user-friendly platform** that categorizes skincare products based on skin type, age, and specific skin concerns such as acne, dryness, and sensitivity.
2. **To provide personalized skincare recommendations** by analyzing users' skin profiles and suggesting suitable products.
3. **To educate users** on the importance of understanding product ingredients and their impact on the skin.
4. **To promote eco-friendly and sustainable skincare solutions** by highlighting natural and cruelty-free products.
5. **To improve user experience and accessibility** through an intuitive interface that makes it easy to search for and compare products.
6. **To encourage self-care practices** by providing tips and best practices for maintaining healthy skin.
7. **To build a reliable database of skincare products and reviews**, ensuring users have access to verified and up-to-date information.

## CHAPTER 3

### Planning

The project is divided into several key phases to ensure smooth execution and timely completion. The following outlines the key phases, tasks, and deliverables:

#### Phases & Timeline:

##### 1. Requirement Gathering (Week 1-2)

- Research skincare products and user needs.
- Define project scope and target audience.  
*Deliverable: Requirement Specification Document.*

##### 2. System Design (Week 3-4)

- Create wireframes, UI prototypes, and database schema.  
*Deliverable: Design Document.*

##### 3. Development (Week 5-8)

- Frontend: Build UI using HTML, CSS, JavaScript.
- Backend: Develop server, database, and APIs.  
*Deliverable: Functional Web Application.*

##### 4. Testing (Week 9)

- Conduct functional and usability tests.  
*Deliverable: Bug Report.*

##### 5. Deployment (Week 10)

- Deploy the platform and conduct final testing.  
*Deliverable: Live Web Application.*

##### 6. Documentation & Report (Week 11)

- Prepare project documentation and final report.  
*Deliverable: Project Report.*



**Team Responsibilities**

Team Member	Task
Member 1	UI/UX Design & Frontend
Member 2	Backend & Database
Member 3	Product Data Collection
Member 4	Testing & Debugging
Member 5	Documentation & Deployment

## CHAPTER 4

### Designing

The design phase focuses on creating a user-friendly interface and system architecture to ensure a seamless experience for users. The design includes frontend UI/UX, database structure, and system flow to manage product information efficiently.

#### 1. Frontend Design (UI/UX)

The web application is designed with an intuitive and responsive interface to ensure accessibility across all devices (mobile, tablet, desktop). The key design elements include:

- **Homepage:** Displays product categories and featured skincare tips.
- **Product Page:** Provides detailed product descriptions, ingredients, and user reviews.
- **Contact Form:** Allows users to submit queries and feedback.

Technologies Used:

- **HTML5, CSS3** (for layout and styling)
- **JavaScript** (for interactive features)

#### 2. Database Design

The database stores product information, user profiles, and feedback. The key tables include:

- **Users Table:** Stores user details and preferences.
- **Products Table:** Stores product names, descriptions, ingredients, and categories.
- **Reviews Table:** Stores user reviews and ratings for products.

#### 3. System Flow Diagram

The system follows a simple workflow:

1. **User Login/Registration**
2. **Browse Products**
3. **View Product Details**
4. **Submit Feedback/Reviews**

## CHAPTER 5

### Development

The development phase involves building both the frontend and backend components of the platform. The focus is on creating a responsive, user-friendly interface and ensuring smooth functionality across all devices.

#### 1. Frontend Development

The frontend is designed using modern web technologies to ensure a clean, responsive, and interactive user experience.

##### Technologies Used:

- **HTML5:** For structuring the web pages.
- **CSS3:** For styling and layout, including media queries for responsiveness.
- **JavaScript:** For interactive elements like navigation menus, form validations, and dynamic content.

##### Key Features Developed:

- **Homepage:** Displays categories and product highlights.
- **Product Page:** Shows product details and user reviews.
- **Contact Form:** Enables users to submit queries and feedback.

#### 2. Backend Development

The backend manages data storage and processing to ensure seamless user interactions.

##### Technologies Used:

- **Node.js:** For server-side scripting.
- **Express.js:** For building APIs and handling server requests.
- **MongoDB:** For storing product data, user information, and reviews.

##### Key Functionalities Developed:

- **User Authentication:** Secure login and registration system.
- **Product Management:** CRUD operations for adding, updating, and deleting products.
- **Review System:** Allows users to submit and view product reviews.

### **3. Integration**

The frontend and backend are integrated to ensure smooth data flow between the user interface and the server.

Integration Process:

- Connected frontend forms to backend APIs for handling user input.
- Implemented real-time data updates using RESTful APIs.

## CHAPTER 6

### Testing

The testing phase ensures that the platform functions as intended, providing a smooth user experience across different devices and browsers. Both functional testing and usability testing were conducted to identify and fix any issues.

#### 1 Types of Testing Conducted

##### ■ Functional Testing

- Verified that all features, including product search, user registration, and feedback submission, work as expected.
- Ensured proper linking between pages and seamless navigation.

##### ■ Usability Testing

- Checked the platform's responsiveness on various devices (mobile, tablet, desktop).
- Ensured the UI is easy to navigate for users with different levels of technical expertise.

##### ■ Cross-Browser Testing

- Tested the platform on major browsers such as Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge to ensure compatibility.

##### ■ Performance Testing

- Ensured fast loading times by optimizing CSS, JavaScript, and images.
- Verified that the platform handles a large number of users and product entries without lag.

#### 2. Test Cases

Test Case ID	Description	Expected Result	Actual Result	Status
TC01	User Registration	User should be registered successfully	Successfully registered	Pass
TC02	Product Search	Relevant products should be displayed	Products displayed correctly	Pass
TC03	Responsive Design	Platform should adapt to all screen sizes	Fully responsive	Pass
TC04	Form Validation	Invalid input should trigger error messages	Error messages displayed	Pass

### 3. Bugs Identified & Fixed

Bug ID	Bug Description	Solution Implemented	Status
BUG01	Navigation bar not responsive on mobile	Fixed using CSS media queries	Resolved
BUG02	Form submission error in Firefox	Updated JavaScript compatibility	Resolved

## TOOLS & TECHNOLOGIES

**Figma** – Used for designing a modern, feminine, and user-friendly UI/UX layout.

**HTML** – Used for structuring the web content and building the page skeleton.

**Bootstrap** – Used for styling the website with responsive design and prebuilt components.

**JavaScript** – Used for adding user interactivity and enhancing user experience on the frontend.

**React.js** – Used to build dynamic frontend components and manage client-side routing.

**Node.js + Express** – Used to create a powerful backend server and RESTful API.

## **Challenges and Solutions**

### **1. Challenge: Time Management**

- Balancing project work with academic responsibilities.

Solution: Created a schedule with specific deadlines for tasks to stay on track.

### **2. Challenge: Design Consistency**

- Ensuring uniform styling across pages.

Solution: Used Bootstrap's predefined classes and reusable components for a cohesive design.

### **3. Challenge: Limited Technical Knowledge**

- Struggled with advanced JavaScript for interactivity.

Solution: Referred to online tutorials and documentation to learn and implement the required features.



## Outcomes

The project successfully achieved its goals of providing a user-friendly platform that offers comprehensive information on women's skincare products. Below are the key outcomes of the project:

### 1. Functional Outcomes

- Developed a **responsive web application** that adapts to different devices (mobile, tablet, desktop).
- Created a **searchable product catalog** with detailed descriptions, ingredients, and usage recommendations.
- Implemented a **user feedback system** where users can submit reviews and queries.
- Integrated **form validation and interactive features** to improve the user experience.

### 2. Technical Outcomes

- Improved understanding of **frontend technologies** (HTML5, CSS3, JavaScript) and **backend frameworks** (Node.js, Express.js).
- Successfully connected the **frontend with the backend API** for smooth data flow.
- Enhanced skills in **database management** using MongoDB for storing product details and user profiles.

### 3. User Outcomes

- Users can easily **find suitable skincare products** based on their skin type and concerns.
- Users receive **valuable skincare tips and product recommendations**, promoting informed decision-making.
- The platform enhances **awareness of eco-friendly and natural products**, encouraging sustainable skincare practices.

### 4. Learning Outcomes for Team Members

- Gained hands-on experience in **web development, system design, and project management**.
- Improved **problem-solving skills** by addressing challenges in development, testing, and deployment.
- Enhanced **collaboration and teamwork** through task distribution and effective communication.

## DATA FLOW DAIGRAM

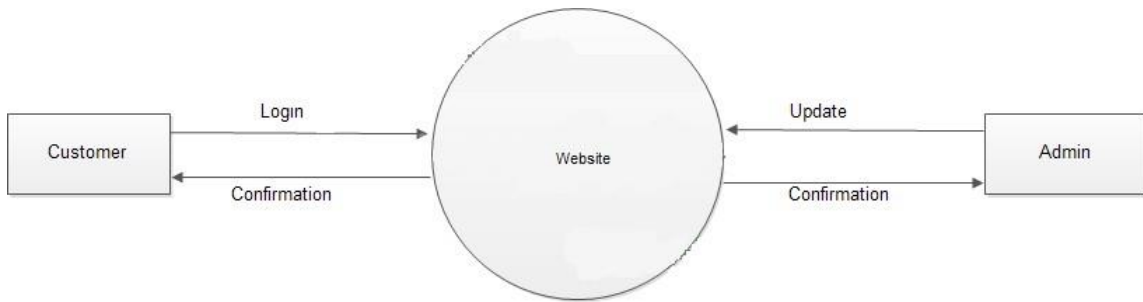


Figure1: 0 Level DFD

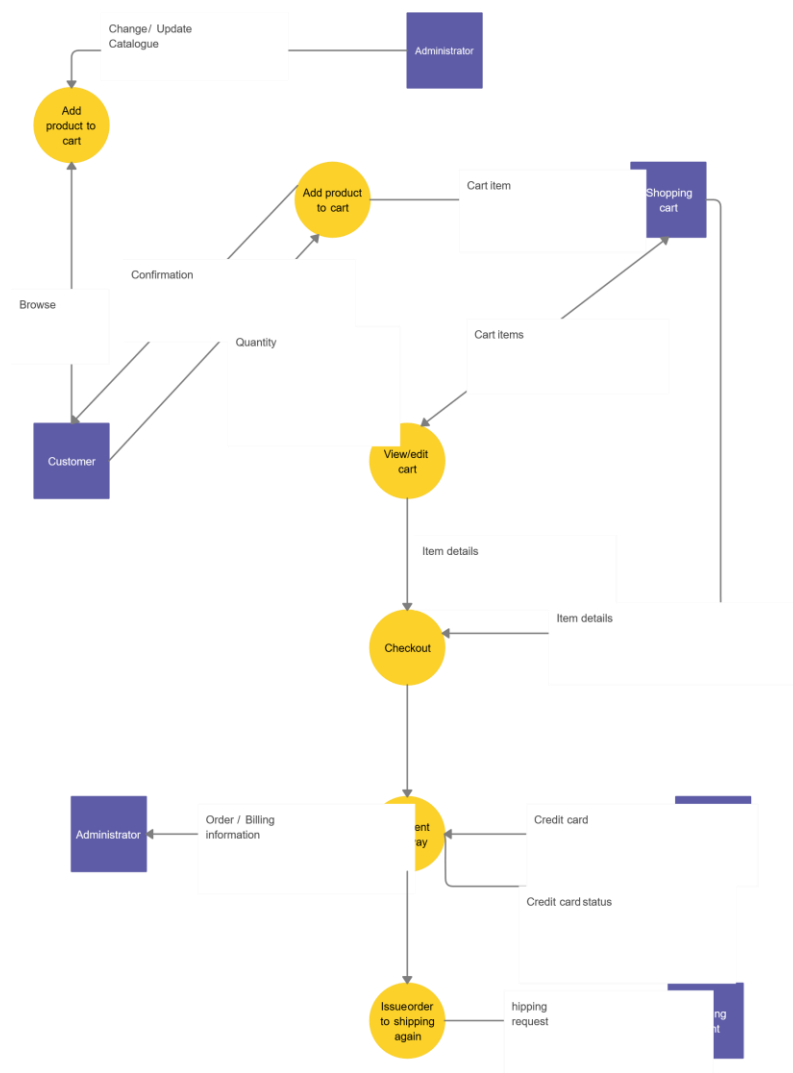


Figure2: 1 Level DFD

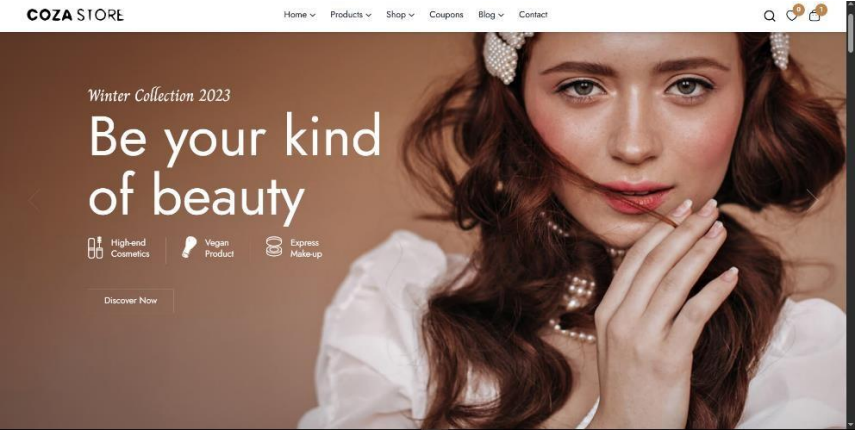


FIG3: Home Page

PRODUCT OVERVIEW

Product Overview section showing filters and sorting options.

**Sort By**

- Default
- Popularity
- Average rating
- Newness
- Price: Low to High
- Price: High to Low

**Price**

All

\$0.00 - \$50.00

\$50.00 - \$100.00

\$100.00 - \$150.00

\$150.00 - \$200.00

\$200.00+

**Tags**

- Face Care
- Men's Skincare
- Women's Skincare
- Natural Skincare
- Organic Products

FIG4: Some Additional Features.

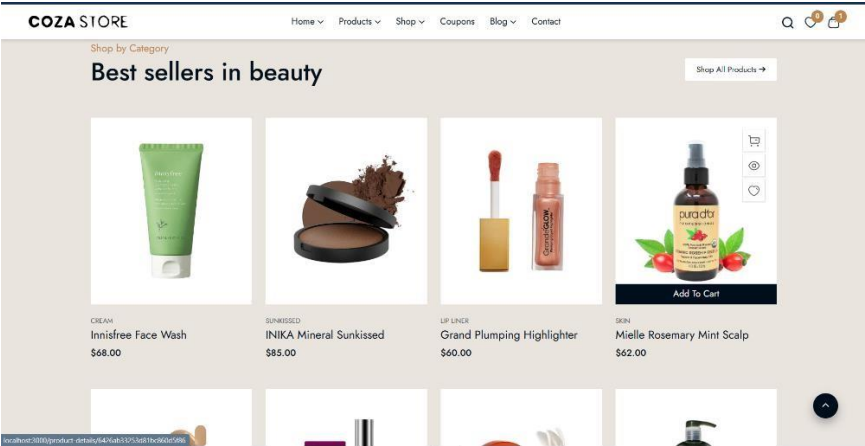


FIG5: Product Page.

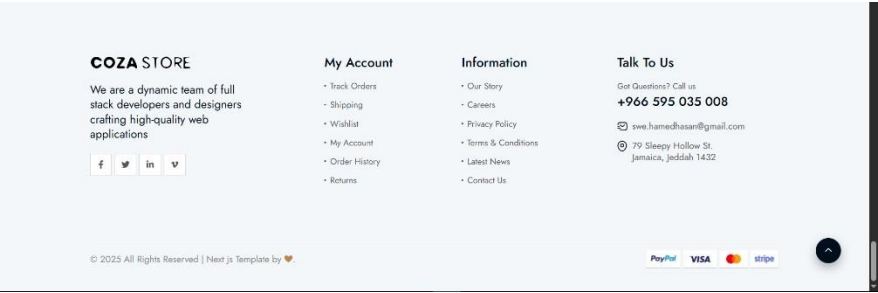


FIG6: Footer.

## FEATURES OF THE WEBSITE

### Advanced Product Filtering and Search:

- Filter by **skin type**, **concerns** (acne, dryness, oiliness), **price range**, **brand**, etc.
- Smart search bar with auto-suggestions.

### User Account System:

- Secure registration and login system.
- User authentication with JWT and social login (Google/Facebook).
- Dynamic cart management, live product filtering, and real-time order confirmation.

### Payment Gateway Integration:

- UPI, Credit/Debit Card, Net Banking, Paytm, Razorpay/Stripe/PayPal .
- Invoice generation and email confirmation on successful payment.

### Live Chat / Contact Form:

- Real-time support via chatbot or contact form.
- FAQ section for common queries.

## **Conclusion**

In conclusion, the project highlights the importance of skincare in overall health and well-being. By providing users with relevant information and recommendations, the platform empowers women to take control of their skincare routines, promoting healthier skin and fostering a greater understanding of product ingredients and their impact.

## **APPENDICES**

### **Appendix A: Technology Stack**

- **Frontend:** HTML5, CSS3, JavaScript, Bootstrap
- **Backend:** Node.js
- **Tools & Platforms:** GitHub (version control), VS Code (IDE), Figma (UI/UX design)

### **Appendix B: Website Wireframes & UI Screenshots**

- Homepage wireframe
- Product page layout
- Checkout process flow
- Responsive mobile design

### **Appendix C: Product Categories and Description Sample**

- **Categories:** Cleansers, Moisturizers, Sunscreens, Serums, Face Masks

#### **Sample Product:**

- **Name:** Vitamin C Brightening Serum
- **Price:** ₹699
- **Description:** Fights dullness and evens out skin tone with 10% Vitamin C. Suitable for all skin types.
- **Tags:** #Brightening #AllSkinTypes #NoParabens

### **Appendix D: User Flow Diagram**

- Visit homepage → Browse products → Filter by skin type → View product → Add to cart → Login/Register → Checkout → Order confirmation

## **REFERENCES**

**1. MDN Web Docs – HTML, CSS, and JavaScript**

Mozilla Foundation. *Comprehensive documentation on frontend technologies.*

<https://developer.mozilla.org/>

**2. W3Schools – Web Development Tutorials**

Tutorials for web technologies used in front-end and back-end development.

<https://www.w3schools.com/>

**3. Bootstrap Official Documentation**

Twitter Bootstrap. *For responsive design and pre-built components.*

<https://getbootstrap.com/>

**4. Figma – UI/UX Design Tool**

Used for designing wireframes, mockups, and user flows.

<https://www.figma.com/>

**5. Node.js Documentation**

Backend programming documentation.

<https://nodejs.org/en/docs>.

**6. Smashing Magazine – UX/UI Best Practices**

Articles and case studies on web design and user experience.

<https://www.smashingmagazine.com/>

**7. Shopify Blog – Skincare E-commerce Insights**

Market trends and product listing tips in the skincare industry.

<https://www.shopify.com/blog/skincare>.

**8. YouTube – Programming with Mosh**

Full-stack web development tutorials and project guides.

<https://www.youtube.com/c/ProgrammingwithMosh>