



PSD Shastri Educational Foundation's
ASMA INSTITUTE OF MANAGEMENT
Approved by AICTE, New Delhi. Affiliated to Savitribai Phule Pune University (Inst. Code: 6164)
Shastri Campus- S. No. 85, NDA Road, Shivane, Pune - 411 023
Ph.: (020) 25291471, 25293332, 9011036202 Fax: (020) 25291461
E-mail: enquiry@asma.in, director@asma.in Website: www.asma.in

Students Internship Project Report



Director

PSD Shastri Educational Foundation's
ASMA Institute of Management





PSD Shastri Educational Foundation's
ASMA INSTITUTE OF MANAGEMENT
Approved by AICTE, New Delhi, Affiliated to Savitribai Phule Pune University (Inst. Code: 6164)
Shastri Campus: S. No. 85, NDA Road, Shivane, Pune - 411 023.
Ph.: (020) 25291471, 25293332, 9011036202 Fax: (020) 25291461
E-mail: enquiry@asma.in, director@asma.in Website: www.asma.in

**Project Report of
Arush Deokate
(ITC41), (MCA)**

Director
PSD Shastri Educational Foundation's
ASMA Institute of Management



A

PROJECT REPORT ON TITLE OF PROJECT

SUBMITTED BY- ARUSH BHAGWAT DEOKATE

EXAM SEAT NO: 2274

CLASS: MCA II YEAR

UNDER THE GUIDANCE OF

PROF. SARIKA JADHAV

**SAVTRIBAI PHULE PUNE UNIVERSITY
MASTER OF COMPUTER APPLICATION**



**ASMA Institute Of Management College
Shivane Pune 411023**


Director

PSD Shaettri Educational Foundation's
ASMA Institute of Management



A

PROJECT REPORT ON TITLE OF PROJECT

SUBMITTED BY- ARUSH BHAGWAT DEOKATE

EXAM SEAT NO: 2274

CLASS: MCA II YEAR

UNDER THE GUIDANCE OF

PROF. SARIKA JADHAV

SAVITRIBAI PHULE PUNE UNIVERSITY
MASTER OF COMPUTER APPLICATION



ASMA Institute Of Management College
Shivane Pune 411023

1

Director

PSD Shastri Educational Foundation's
ASMA Institute of Management








**ASMA Institute Of Management College
Shivane Pune 411023**

CERTIFICATE

This is to certify that **Mr. Arush Bhagwat Deokate** is a bonafide student of ASMA Institute of Management, Pune-23, has successfully completed the project work in the Partial Fulfillment of Master of Computer Application (MCA) Program as per guidelines provided by the Savitribai Phule Pune University for Academic Year 2023-24


Prof. Sarika Jadhav
Project Guide


Prof. Prakash Patil
HOD


Dr. Tahnu Ganesh
Director
ASMA Institute of Management

External Examiner: 
23/05/2024

Internal Examiner:

Date: 23 / 05 /2024

Place: Pune





www.indiatechsoft.in

hrd@indiatechsoft.com

info@indiatechsoft.com

+91 9156665759

To whom so ever it may concern

This is Certified That Arush Bhagwat Deokate student of ASMA INSTITUTE OF MANAGEMENT, PUNE pursuing **MCA** has worked with us as an Intern from 10th February 2024 to 10th May 2024 at India Tech Soft Pvt. Ltd, Pune Under the Guidance of Mr. Vivek and Abhishek Sonar.

Documentation of the Application in the project report is not feasible due to its confidential nature. The Interns are not allowed to share the application outside the workspace.

We wish his all success in his future endeavors.

Sincerely,

Sign of
PROJECT GUIDE



Sign of
(CEO)

Address : 101, IndiaTechSoft , Ashoka Building Opposite to Manglam Society, Lane No. 4
Adarsh Colony, Tinge Nagar, Vishrantwadi Pune-411015



COMPANY CERTIFICATE



www.indiatechsoft.in

info@indiatechsoft

+91 9156665759

Arush Bhagwat Deokate

ASMA INSTITUTE OF MANAGEMENT, SHIVANE, PUNE

SUB : OFFER LETTER FOR INTERNSHIP

Dear Arush,

In reference to your application, we would like to congratulate you on being selected for internship with Indian Tech Soft based at Pune. Your training is scheduled to start effective **10/02/2024** for a period of **3 months**

As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts through hands-on application of the knowledge you learned in class.

The project details and technical platform will be shared with you on or before commencement of training.

Again, congratulations and we look forward to working with you.

Signature of Authority



HR Head-IndiaTechSoft

Address: 101, IndiaTechSoft, Ashoka Building, Opposite to Manglani Society, Lane No. 4
Adarsh Colony, TingeNagar, Vishrantwadi Pune 411015

3

Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



ACKNOWLEDGEMENT

The success and final outcome of this project required a lot of guidance and assistance from many people and we are extremely privileged to have got this all along the completion of our project. All that we have done is only due to such supervision and assistance and we would not forget to thank them.

I would like to thank you to the Director **Dr. Tannu Ganesh**, HOD **Mr. Prakash Patil**, all respected faculty members and project guide **Mrs. Sarika Jadhav** for providing us an opportunity to do the project work and give us all support and guidance which made us complete the project duty. We are extremely thankful to them for providing such a nice support and guidance, although they had busy schedule managing the corporate affairs.

We owe a deep gratitude to our project guides for taking keen interest on our project work and guiding us all along, till the completion of our project work by providing all the necessary information for developing a good system.

We are thankful to and fortunate enough to get constant encouragement, support and guidance from all teaching staff which helped us in successfully completing our project work. Also, we would like to extend our sincere esteem to all staff in laboratory for their timely support.



Yours Sincerely,
Arush Bhagwat Deokate



Director



Table of Content

Chapter No		Detail s	Page No
1		Introduction	9
	1.1	Company Profile	9
	1.2	Abstract	10
	1.3	Existing System and Need for System	10-12
	1.4	Scope of System	12-13
	1.5	Operating Environment - Hardware and Software	13-14
	1.6	Brief Description of Technology Used	14-18
2		Proposed System	19
	2.1	Proposed System	19-20
	2.2	Objectives of Proposed System	20-22
	2.3	User Requirement	22-23
	2.4	Modules of Proposed System	23-25
3		Analysis and Design	26
	3.1	System Requirements	26-27
	3.2	Entity Relationship Diagram (ERD)	28
	3.3	Table Structure	29-31
	3.4	Use Case Diagrams	32
	3.5	Class Diagram	33-34
	3.6	Activity Diagram	35
	3.7	Sequence Diagram	36
	3.8	Deployment Diagram	37
	3.9	Module Hierarchy Diagram	38
	3.10	Sample Input and Output Screens	38-50
4		Coding	51
	4.1	Code snippets	51-57
5		Testing	58
	5.1	Test Procedures and Implementations:	58-59
	5.2	Test Strategy:	59
	5.3	Unit Test Plan:	60
	5.4	Test Case	60-62
6		Limitations of Proposed System	63
7		Proposed Enhancements	64
8		Conclusion	65
9		Bibliography	66
10		User Manual	67-68


 Director



Chapter no 1

INTRODUCTION

1.1 Company Profile

- **Company Name** – skinnsi(makeO)
- **Address** - 1st floor, Empire Plaza 1, B Wing, Lal Bahadur Shastri Rd, Chandan Nagar, Vikhroli West, Mumbai, Maharashtra 400070
- **Foundation Year** – 2017
- **Services Offered** – Laser Hair Reduction, Derma facial, acne-treatment, hydra-facial treatment, anti-ageing treatment
- **Products Manufactured** – acne, hydration, brightening, sun protect, anti-ageing
- India's leading clinical beauty platform which is backed by experts & driven by technology, where our brands **toothsi & skinnsi** are revolutionizing the way Indians get smile makeovers & the skin they've always wanted.
- **Present in over 17 cities** across India, we've designed close to **1,50,000 smiles** & completed over **44,310 Laser Hair Reduction sessions**. We've reached close to 2,00,000 customers via at-home visits, partner clinics and our flagship center.

Skinnsi provides a wide range of services

- Skincare Services
- Skincare Products


Director



1.2 Abstract/Introduction

Welcome to our online skin medicine hub! We are thrilled to provide you with a convenient and reliable platform to address all your skin health needs. At our hub, we understand the importance of maintaining healthy and radiant skin, and we are committed to bringing you the finest selection of dermatological products and expert advice from the comfort of your own home.

Our hub is designed to cater to individuals seeking effective solutions for various skin concerns, whether it's acne, eczema, psoriasis, aging, or any other dermatological condition. We have curated a comprehensive range of high-quality skin medicines, including creams, ointments, lotions, serums, and more, sourced from reputable brands and manufacturers.

What sets us apart is our focus on providing a seamless and user-friendly experience. Our intuitive website interface allows you to browse and explore our extensive product catalog with ease. You can access detailed product descriptions, ingredients, usage instructions, and customer reviews to make informed decisions about your skincare purchases.

Furthermore, our hub goes beyond being just an online store. We take pride in our commitment to educating and empowering our customers. Our platform features a wealth of educational resources, including articles, blogs, and videos, created by dermatologists and skincare experts. Whether you want to learn about the latest skincare trends, discover tips for maintaining healthy skin, or delve into the science behind dermatological treatments, we have you covered.

We understand that skincare is a personal journey, and everyone's needs are unique. That's why we offer personalized recommendations through our online consultation service. You can connect with our team of licensed dermatologists, who will provide tailored advice and suggest suitable products based on your specific concerns and skin type.

Customer satisfaction is our top priority, and we strive to deliver exceptional service. From secure payment options to discreet packaging and prompt delivery, we aim to make your shopping experience hassle-free and enjoyable.

Thank you for choosing our online skin medicine hub. We are excited to be part of your skincare journey and help you achieve healthy, glowing skin. Explore our range of products, tap into expert knowledge, and take the first step towards your skin's optimal health and beauty.

1.3 Existing System and Need for System

Existing System

Offline skin medicine selling, while still a common practice, can present several challenges and limitations. Here are some of the problems associated with offline skin medicine selling:

1. **Limited Accessibility:** Offline stores are typically located in specific physical locations, which can make it difficult for individuals in remote areas or with limited mobility to access the necessary skin medicines. This lack of accessibility can be a major hindrance, especially for individuals with urgent skin concerns.

2. **Restricted Product Range:** Offline stores often have limited shelf space, which means they may carry a

limited selection of skin medicines. This restricts the choices available to customers and may prevent them from accessing specific products or brands that could be beneficial for their skin condition.

3. **Lack of Information:** In offline stores, obtaining detailed information about skin medicines can be challenging. Customers may have to rely solely on the knowledge of the store staff, who might not always be adequately trained in dermatology. This can result in incomplete or inaccurate information being provided to customers, leading to suboptimal product choices.

4. **Time and Effort:** Shopping for skin medicines offline often requires physically visiting multiple stores to compare products, prices, and availability. This can be time-consuming and tiresome, particularly for individuals with busy schedules or limited mobility.

5. **Privacy Concerns:** Some skin conditions can be sensitive or embarrassing for individuals. Purchasing skin medicines offline may expose customers to potential judgment or discomfort due to lack of privacy during the shopping process.

6. **Higher Costs:** Offline stores may have higher operational costs, including rent, staff salaries, and inventory management, which can translate into higher product prices for customers. This can be a significant disadvantage for individuals seeking cost-effective solutions for their skin concerns.

7. **Limited Expert Advice:** Offline stores may not always have a resident dermatologist or skincare expert available to provide personalized advice and recommendations. Customers might miss out on valuable insights and guidance that can optimize their skincare routine and treatment outcomes.

By recognizing these challenges, online skin medicine hubs aim to address these issues and provide a more accessible, informative, and convenient platform for customers to fulfill their skin medicine needs.

Need for System

An online skin medicine hub serves several important needs in the realm of skincare and dermatology. Here are some key reasons why an online skin medicine hub is essential:

1. **Accessibility:** Online skin medicine hubs provide a convenient and accessible platform for individuals to access a wide range of skin medicines from anywhere, at any time. This is particularly beneficial for people living in remote areas or those with limited access to physical stores or dermatologists.

2. **Extensive Product Range:** Online hubs typically offer a diverse selection of skin medicines from various brands and manufacturers. This allows customers to explore and choose from a broader range of products, ensuring they can find the most suitable solution for their specific skin concerns.

3. **Information and Education:** Online skin medicine hubs often provide comprehensive product information, including detailed descriptions, ingredients, usage instructions, and customer reviews. Additionally, these hubs may feature educational resources such as articles, blogs, and videos created by dermatologists and skincare experts. This wealth of information empowers customers to make informed decisions about their skincare purchases and gain valuable knowledge about maintaining healthy skin.

4. **Personalized Recommendations:** Many online skin medicine hubs offer personalized recommendations through online consultations with licensed dermatologists. Customers can receive tailored advice based on their unique skin type, concerns, and goals. This personalized approach ensures that customers receive


Director



the most appropriate product recommendations for their specific needs.

5. **Convenience and Time-Saving:** Online shopping eliminates the need for physically visiting multiple stores to find the desired skin medicines. With just a few clicks, customers can browse through an extensive product catalog, compare options, and make purchases conveniently from their own homes. This saves time and effort, making it easier for individuals with busy schedules or limited mobility to access the skincare products they need.

6. **Privacy and Discretion:** Online skin medicine hubs offer a discreet shopping experience, especially beneficial for individuals with sensitive or embarrassing skin conditions. Customers can explore and purchase their required products in the comfort and privacy of their own space without concerns about judgment or discomfort.

7. **Cost-Effectiveness:** Online hubs often offer competitive pricing due to lower overhead costs compared to physical stores. Customers can find cost-effective options for their skincare needs and potentially avail of discounts or promotions available exclusively online.

By fulfilling these needs, online skin medicine hubs enhance accessibility, knowledge, convenience, and personalized care for individuals seeking effective solutions for their skin concerns. They bridge the gap between customers and skincare products, facilitating a seamless and empowering skincare experience.

1.4 Scope of System

An online skin medicine hub serves several important needs in the realm of skincare and dermatology. Here are some key reasons why an online skin medicine hub is essential:

1. **Accessibility:** Online skin medicine hubs provide a convenient and accessible platform for individuals to access a wide range of skin medicines from anywhere, at any time. This is particularly beneficial for people living in remote areas or those with limited access to physical stores or dermatologists.

2. **Extensive Product Range:** Online hubs typically offer a diverse selection of skin medicines from various brands and manufacturers. This allows customers to explore and choose from a broader range of products, ensuring they can find the most suitable solution for their specific skin concerns.

3. **Information and Education:** Online skin medicine hubs often provide comprehensive product information, including detailed descriptions, ingredients, usage instructions, and customer reviews. Additionally, these hubs may feature educational resources such as articles, blogs, and videos created by dermatologists and skincare experts. This wealth of information empowers customers to make informed decisions about their skincare purchases and gain valuable knowledge about maintaining healthy skin.

4. **Personalized Recommendations:** Many online skin medicine hubs offer personalized recommendations through online consultations with licensed dermatologists. Customers can receive tailored advice based on their unique skin type, concerns, and goals. This personalized approach ensures that customers receive the most appropriate product recommendations for their specific needs.

5. Convenience and Time-Saving: Online shopping eliminates the need for physically visiting multiple stores to find the desired skin medicines. With just a few clicks, customers can browse through an extensive product catalog, compare options, and make purchases conveniently from their own homes. This saves time and effort, making it easier for individuals with busy schedules or limited mobility to access the skincare products they need.

6. Privacy and Discretion: Online skin medicine hubs offer a discreet shopping experience, especially beneficial for individuals with sensitive or embarrassing skin conditions. Customers can explore and purchase their required products in the comfort and privacy of their own space without concerns about judgment or discomfort.

7. Cost-Effectiveness: Online hubs often offer competitive pricing due to lower overhead costs compared to physical stores. Customers can find cost-effective options for their skincare needs and potentially avail of discounts or promotions available exclusively online.

By fulfilling these needs, online skin medicine hubs enhance accessibility, knowledge, convenience, and personalized care for individuals seeking effective solutions for their skin concerns. They bridge the gap between customers and skincare products, facilitating a seamless and empowering skincare experience.

1.5 Operating Environment - Hardware and Software

Hardware Requirements:

- **Server side:**

RAM	16GB
Hard Disk	60GB and above.

- **Client side:**

RAM	Minimum 8GB
Hard Disk	Minimum 100GB & above
Processor	Dual Core or above


Director



Software Requirements:

- **Server side:**

Operating system	Windows
Processor	Core2 Duo
Software	Azure Server, ASP .NET, Html5, Css3, Angular, Bootstrap, MySQL

- **Client side :-**

Operating System	Windows7/Later
Web Browser	Google Chrome/Mozilla Firefox
Technology	ASP .NET, Angular, Bootstrap
Database	MYSQL
Development Tool (Editor)	VS Studio
Supporting Technology	HTML, Css3

1.6 Brief Description of Technology Used

What is Angular?

Angular is an open-source, JavaScript framework written in TypeScript. Google maintains it, and its primary purpose is to develop single-page applications. As a framework, Angular has clear advantages while also providing a standard structure for developers to work with. It enables users to create large applications in a maintainable manner.

Why Do You Need a Framework?

Frameworks in general boost web development efficiency and performance by providing a consistent structure so that developers don't have to keep rebuilding code from scratch. Frameworks are time savers that offer developers a host of extra features that can be added to software without requiring extra effort.



Why Angular?

JavaScript is the most commonly used client-side scripting language. It is written into HTML documents to enable interactions with web pages in many unique ways. As a relatively easy-to-learn language with pervasive support, it is well-suited to develop modern applications. But is JavaScript ideal for developing single-page applications that require modularity, testability, and developer productivity? Perhaps not.

These days, we have a variety of frameworks and libraries designed to provide alternative solutions. With respect to front-end web development, Angular addresses many, if not all, of the issues developers face when using JavaScript on its own.

Different Angular Versions

“Angular” is the catch-all term for the various framework versions out there. Angular was developed in 2009, and as a result, there have been many iterations.

First, there was the original Angular, called Angular 1 and eventually known as AngularJS. Then came Angular’s 2, 3, 4, 5, until finally, the current version, Angular 11, released on 11/11/2020. Each subsequent Angular version improves on its predecessor, fixing bugs, addressing issues, and accommodating increasing complexity of current platforms.

If you want to design apps better suited for mobile devices, and/or more complex apps, you had best to upgrade to its current version.

Angular Architecture

Angular is a full-fledged model-view-controller (MVC) framework. It provides clear guidance on how the application should be structured and offers bi-directional data flow while providing real DOM.


Director



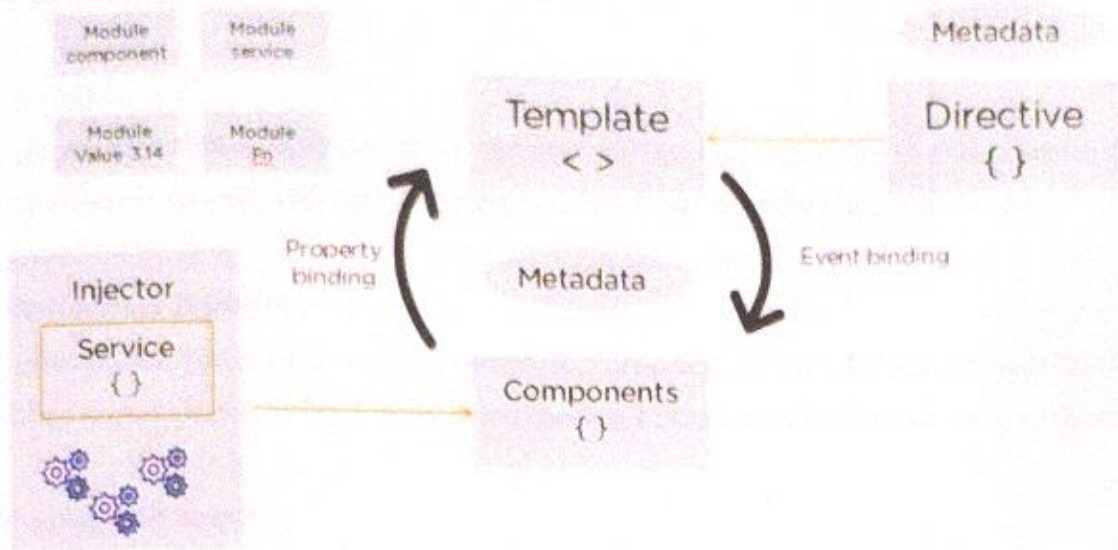


Fig 1.1 Angular Architecture (Source Google Images)

The following are the building blocks of an Angular application:

1. Modules

An Angular app has a root module, named App-Module, which provides the bootstrap mechanism to launch the application.

2. Components

Each component in the application defines a class that holds the application logic and data. A component generally defines a part of the user interface (UI).

3. Templates

The Angular template combines the Angular mark-up with HTML to modify HTML elements before they are displayed. There are two types of data binding:

1. Event binding: Lets your app respond to user input in the target environment by updating your application data.
2. Property binding: Enables users to interpolate values that are computed from your application dainty

4. Metadata

Metadata tells Angular how to process a class. It is used to decorate the class so that it can configure the

expected behavior of a class.

5. Services

When you have data or logic that isn't associated with the view but has to be shared across components, a service class is created. The class is always associated with the `@Injectable` decorator.

6. Dependency Injection

This feature lets you keep your component classes crisp and efficient. It does not fetch data from a server, validate the user input, or log directly to the console. Instead, it delegates such tasks to the services.

Advantages of Angular

1. Custom Components

Angular enables users to build their own components that can pack functionality along with rendering logic into reusable pieces. It also plays well with web components.

2. Data Binding

Angular enables users to effortlessly move data from JavaScript code to the view, and react to user events without having to write any code manually.

3. Dependency Injection

Angular enables users to write modular services and inject them wherever they are needed. This improves the testability and reusability of the same services.

4. Testing

Tests are first-class tools, and Angular has been built from the ground up with testability in mind. You will have the ability to test every part of your application—which is highly recommended.

5. Comprehensive

Angular is a full-fledged framework and provides out-of-the-box solutions for server communication, routing within your application, and more.

6. Browser Compatibility

Angular is cross-platform and compatible with multiple browsers. An Angular application can typically

run on all browsers (Ex: Chrome, Firefox) and OS, such as Windows, macOS, and Linux.

1. Steep Learning Curve

The basic components of Angular that all users should know include directives, modules, decorators, components, services, dependency injection, pipes, and templates. More advanced topics include change detection, zones, AoT compilation, and Rx.js. For beginners, Angular 4 may be challenging to learn because it is a complete framework.

3. Limited SEO Options

Angular offers limited SEO options and poor accessibility to search engine crawlers.

4. Migration

One of the reasons why companies do not frequently use Angular is the difficulty in porting legacy js/jQuery-based code to angular style architecture. Also, each new release can be troublesome to upgrade, and several of them are not backward-compatible.

ASP.NET ZERO

ASP.NET Zero is a starting point for new web applications with a **modern UI** and **SOLID architecture**. It implements basic/common requirements of **line of business applications**. You get its **source code** and develop your business application on top of it for saving your valuable time to **focus on your business code**.

Chapter 2

Proposed System

2.1 Proposed System:

The project "Skinnsi" would involve the development of a user-friendly and visually appealing website with a responsive design. The proposed system of an online skin medicine hub comprises several essential components and functionalities to create a seamless and user-friendly platform for customers. Here is an overview of the key elements of the proposed system:

1. **User Registration and Account Management:** The system allows users to create an account by registering with their personal information, including name, email address, and password. Registered users can manage their profiles, track order history, and save their preferences for a personalized experience.
2. **Product Catalog and Search:** The system features a comprehensive product catalog that includes a wide range of skin medicines, categorized by skin concerns, brands, ingredients, and product types. Users can easily search and filter products based on their specific requirements.
3. **Detailed Product Descriptions:** Each product listing provides detailed information about the skin medicine, including ingredients, usage instructions, precautions, and customer reviews. This helps users make informed decisions about the suitability of the product for their skin concerns.
4. **Online Consultation Services:** The system offers online consultation services with licensed dermatologists and skincare experts. Users can schedule virtual appointments, discuss their skin concerns, and receive personalized recommendations for suitable skin medicines and skincare routines.
5. **Personalized Recommendations:** Based on the information provided during the consultation or through user preferences, the system generates personalized product recommendations tailored to the user's specific skin type, concerns, and goals.
6. **Secure Payment Processing:** The system integrates secure payment gateways to facilitate smooth and


Director



secure transactions. Users can choose from various payment options, including credit/debit cards, digital wallets, or other convenient methods.

7. Educational Resources: The system provides a dedicated section for educational resources, including articles, blogs, videos, and guides related to skincare, dermatological conditions, ingredient knowledge, and skincare routines. This information helps users gain insights and make informed decisions about their skincare.

8. Customer Support: The system incorporates a customer support feature to assist users with any queries, concerns, or technical issues they may encounter. Users can reach out to the support team through chat, email, or a dedicated helpline.

9. Order Processing and Tracking: Once users place an order, the system handles the order processing, inventory management, and shipment tracking. Users can track the status of their orders and receive notifications regarding the progress of their delivery.

10. User Feedback and Reviews: The system allows users to provide feedback and reviews on purchased products and their overall experience. This helps other users make informed decisions and provides valuable insights for the improvement of the system.

11. Data Privacy and Security: The system ensures the privacy and security of user data, employing encryption techniques, secure server infrastructure, and compliance with data protection regulations.

By incorporating these features and functionalities, the proposed system of an online skin medicine hub aims to provide users with a convenient, informative, and personalized experience for accessing skin medicines, expert advice, and educational resources to achieve optimal skincare outcomes.

1.2 Objectives of Proposed System:

The objective of the system in an online skin medicine hub is to provide a comprehensive and user-centric platform that facilitates convenient access to skin medicines, expert advice, and educational resources. The key objectives of the system are as follows:

1. Accessibility: The system aims to make skin medicines easily accessible to a wide range of users,

irrespective of their geographical location or physical limitations. By being available online, the hub eliminates barriers to access and ensures that individuals can obtain the required skin medicines conveniently.

2. **Product Availability:** The system aims to offer a diverse range of high-quality skin medicines, including creams, ointments, lotions, serums, and more, sourced from reputable brands and manufacturers. The objective is to provide users with an extensive product catalog that caters to various skin concerns and conditions.

3. **Personalization:** The system aims to provide personalized recommendations and advice to users based on their unique skin types, concerns, and goals. Through online consultations with licensed dermatologists or skincare experts, the system strives to offer tailored solutions that address individual needs effectively.

4. **Knowledge and Education:** The system aims to be a valuable source of knowledge and education for users. It provides informative resources such as articles, blogs, videos, and guides created by dermatologists and skincare professionals. The objective is to empower users with information about skincare routines, ingredients, treatment options, and emerging trends to enhance their understanding of skincare.

5. **Convenience and User Experience:** The system aims to create a seamless and user-friendly platform that offers a convenient shopping experience. The objective is to provide intuitive navigation, easy search options, secure payment processing, and efficient order management to enhance user satisfaction and overall experience.

6. **Privacy and Confidentiality:** The system aims to prioritize user privacy and confidentiality. It ensures secure handling of personal information, discreet packaging, and a confidential online consultation service to address any sensitive or private skin concerns.

7. **Customer Support:** The system aims to provide responsive and effective customer support services. Users can receive assistance, guidance, and resolution to any queries, concerns, or technical issues they may encounter during their interaction with the online hub.

8. **Continuous Improvement:** The system aims to collect user feedback, reviews, and ratings to understand user preferences, improve the product offerings, and enhance the overall system performance. The objective

is to continuously refine and update the system to meet the evolving needs of users.

Overall, the objective of the system in an online skin medicine hub is to create a reliable, informative, and user-centric platform that empowers individuals to make informed decisions, access quality skin medicines, and optimize their skincare routines for healthier and radiant skin.

1.3 User Requirement

The user requirements of an online skin medicine hub can vary based on individual needs and preferences. However, here are some common user requirements that an online skin medicine hub should aim to fulfill:

1. **Extensive Product Range:** Users expect the online hub to offer a wide selection of skin medicines, including different brands, formulations, and options for various skin concerns. The hub should cater to common conditions like acne, eczema, psoriasis, as well as address specific dermatological needs.
2. **Easy Navigation and User-Friendly Interface:** Users require a website or application with intuitive navigation and a user-friendly interface. They should be able to easily browse through product categories, search for specific items, and access relevant information about each product.
3. **Detailed Product Information:** Users seek comprehensive and accurate information about the skin medicines available. The hub should provide detailed descriptions, ingredients, usage instructions, precautions, and potential side effects. High-quality images and customer reviews can also be beneficial for users to make informed decisions.
4. **Personalization and Expert Advice:** Users may require personalized recommendations and expert advice tailored to their specific skin concerns. The online hub should offer the option for users to consult with licensed dermatologists or skincare experts who can provide individualized guidance on product selection, usage, and overall skincare routine.
5. **Convenient Ordering and Secure Payment:** Users expect a seamless and secure ordering process. The hub should provide multiple payment options, such as credit/debit cards, digital wallets, and other trusted methods. A streamlined checkout process with clear pricing, shipping options, and order tracking is also essential.



Director



6. **Educational Resources:** Users appreciate access to educational resources such as articles, blogs, videos, and guides related to skincare, dermatological conditions, and skincare routines. These resources should be informative, reliable, and regularly updated to empower users with knowledge and insights about maintaining healthy skin.

7. **Privacy and Confidentiality:** Users value privacy and confidentiality, especially when it comes to sensitive skin conditions. The online hub should prioritize user privacy, secure handling of personal information, and discreet packaging and shipping to maintain confidentiality.

8. **Responsive Customer Support:** Users require prompt and helpful customer support. The online hub should offer responsive channels of communication, such as live chat, email, or a dedicated helpline, to address inquiries, provide assistance, and resolve any issues or concerns.

9. **User Reviews and Feedback:** Users appreciate the ability to provide feedback and reviews about their experiences with the products and the online hub. The platform should have a mechanism for users to share their feedback, helping other users make informed decisions while also providing insights for the continuous improvement of the hub.

By addressing these user requirements, an online skin medicine hub can create a user-centric platform that meets the needs and expectations of individuals seeking effective and reliable skincare solutions.

1.4 Modules of Proposed System:

The module specifications of an online skin medicine hub can vary depending on the specific functionalities and features implemented in the system. However, here are some essential modules that can be included in an online skin medicine hub:

1. User Registration and Authentication:

- **User registration:** Allows users to create an account by providing their personal information, such as name, email address, and password.
- **User authentication:** Verifies the user's credentials during the login process to ensure secure access to the system.

2. Product Management:

- **Product catalog:** Stores information about the available skin medicines, including product details, descriptions, ingredients, images, and pricing.



- Search and filtering: Enable users to search for specific skin medicines based on criteria such as brand, condition, ingredient, or product type.

- Inventory management: Tracks the availability of products, updates stock levels, and notifies users when items are out of stock.

3. Shopping Cart and Checkout:

- Shopping cart: Allows users to add selected skin medicines to their cart for future purchase.

- Order processing: Facilitates the processing of orders, including calculating the total cost, applying discounts or promotions, and generating an order summary.

- Secure payment processing: Integrates with payment gateways to enable users to make secure online payments.

4. User Profile and Account Management:

- User profile: Stores and manages user information, including personal details, order history, and preferences.

- Order tracking: Allows users to track the status and delivery progress of their orders.

- Wishlist: Enables users to create and manage a wishlist of desired skin medicines for future reference or purchase.

5. Online Consultation:

- Appointment scheduling: Allows users to schedule virtual consultations with licensed dermatologists or skincare experts.

- Communication platform: Facilitates secure communication between users and experts, including messaging, video calls, or chat features.

- Prescription and recommendations: Enables experts to provide personalized product recommendations, skincare routines, and prescriptions based on the user's skin concerns and conditions.

6. Educational Resources:

- Article and blog management: Provides a platform for managing and publishing educational articles, blogs, videos, and guides related to skincare and dermatology.

- Categorization and search: Organizes educational resources into categories for easy browsing and enables users to search for specific topics or keywords.

7. Customer Support:

- Helpdesk and ticketing system: Allows users to submit inquiries, concerns, or technical issues to the



customer support team.

- Support ticket management: Tracks and manages user inquiries, assigns tickets to support agents, and ensures timely resolution.

8. Review and Feedback:

- Rating and review system: Enables users to rate and provide feedback on purchased products and overall user experience.

- Review moderation: Includes a moderation system to monitor and manage user reviews to ensure authenticity and appropriate content.



Director



Chapter 3

Analysis and Design

3.1 System Requirements:

The user requirements of an online skin medicine hub can vary based on individual needs and preferences. However, here are some common user requirements that an online skin medicine hub should aim to fulfill:

1. **Extensive Product Range:** Users expect the online hub to offer a wide selection of skin medicines, including different brands, formulations, and options for various skin concerns. The hub should cater to common conditions like acne, eczema, psoriasis, as well as address specific dermatological needs.
2. **Easy Navigation and User-Friendly Interface:** Users require a website or application with intuitive navigation and a user-friendly interface. They should be able to easily browse through product categories, search for specific items, and access relevant information about each product.
3. **Detailed Product Information:** Users seek comprehensive and accurate information about the skin medicines available. The hub should provide detailed descriptions, ingredients, usage instructions, precautions, and potential side effects. High-quality images and customer reviews can also be beneficial for users to make informed decisions.
4. **Personalization and Expert Advice:** Users may require personalized recommendations and expert advice tailored to their specific skin concerns. The online hub should offer the option for users to consult with licensed dermatologists or skincare experts who can provide individualized guidance on product selection, usage, and overall skincare routine.
5. **Convenient Ordering and Secure Payment:** Users expect a seamless and secure ordering process. The hub should provide multiple payment options, such as credit/debit cards, digital wallets, and other trusted methods. A streamlined checkout process with clear pricing, shipping options, and order tracking is also essential.

6. **Educational Resources:** Users appreciate access to educational resources such as articles, blogs, videos, and guides related to skincare, dermatological conditions, and skincare routines. These resources should be informative, reliable, and regularly updated to empower users with knowledge and insights about maintaining healthy skin.

7. **Privacy and Confidentiality:** Users value privacy and confidentiality, especially when it comes to sensitive skin conditions. The online hub should prioritize user privacy, secure handling of personal information, and discreet packaging and shipping to maintain confidentiality.

8. **Responsive Customer Support:** Users require prompt and helpful customer support. The online hub should offer responsive channels of communication, such as live chat, email, or a dedicated helpline, to address inquiries, provide assistance, and resolve any issues or concerns.

9. **User Reviews and Feedback:** Users appreciate the ability to provide feedback and reviews about their experiences with the products and the online hub. The platform should have a mechanism for users to share their feedback, helping other users make informed decisions while also providing insights for the continuous improvement of the hub.

By addressing these user requirements, an online skin medicine hub can create a user-centric platform that meets the needs and expectations of individuals seeking effective and reliable skincare solutions.

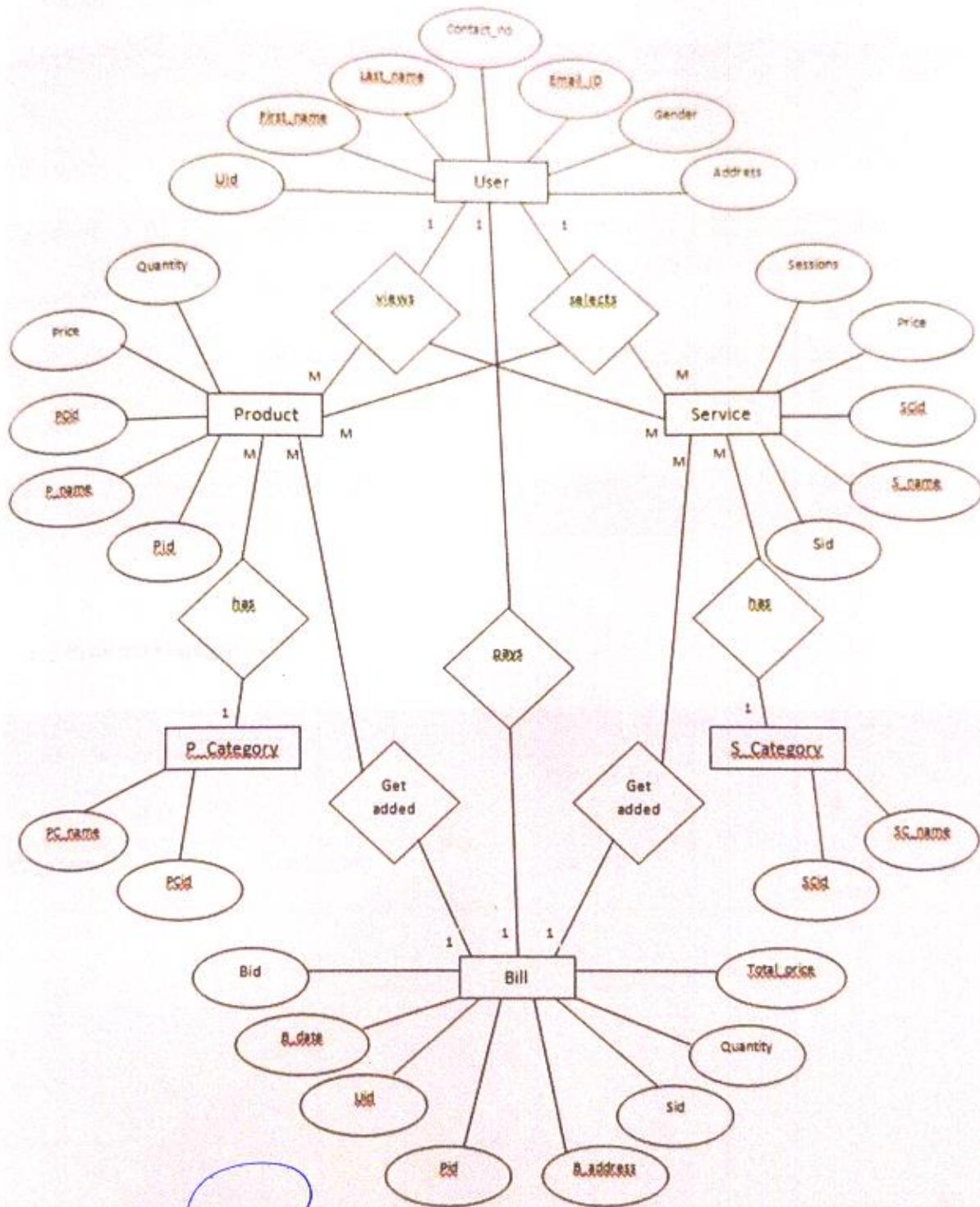


Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



3.2 Entity Relationship Diagram (ERD):



[Signature]
Director



3.3 Table Structure:

- User

FIELDS	DATATYPE	CONSTRAINTS	DESCRIPTION
Uid	int (12)	Primary Key	User ID
First name	varchar (30)	Not Null	First name of customer
Last name	varchar (30)	Not Null	Last name of Customer
Contact no	int (10)	Not Null	Contact no. of the customer
Email_id	varchar (30)	Not Null	Email id of Customer
Gender	varchar (10)	Not Null	Gender of Customer
Address	varchar (200)	Not Null	Location Details of Customer

- Product Category

FIELDS	DATATYPE	CONSTRAINTS	DESCRIPTION
PCid	int (12)	Primary Key	Display product category id
PC_name	varchar(50)	Not Null	Display product category name



Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



• Product Details:

FIELDS	DATATYPE	CONSTRAINTS	DESCRIPTION
Pid	int(12)	Primary key	Product Id
P_name	varchar(30)	Not null	Product name
PCid	int(12)	Foreign Key	Product Category ID
Price	float(6,2)	Not Null	Product Price
Quantity	int(12)	Not Null	Total Quantity of product

• Service Category

FIELDS	DATATYPE	CONSTRAINTS	DESCRIPTION
SCid	int (12)	Primary Key	Display service category id
SC_name	varchar(50)	Not Null	Display service category name



Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



• Service Details:

FIELDS	DATATYPE	CONSTRAINTS	DESCRIPTION
Sid	int(12)	Primary key	Service Id
S_name	varchar(30)	Not null	Service name
SCid	int(12)	Foreign Key	Service Category ID
Price	float(6,2)	Not Null	Service Price
Sessions	int(12)	Not Null	Total sessions of the service

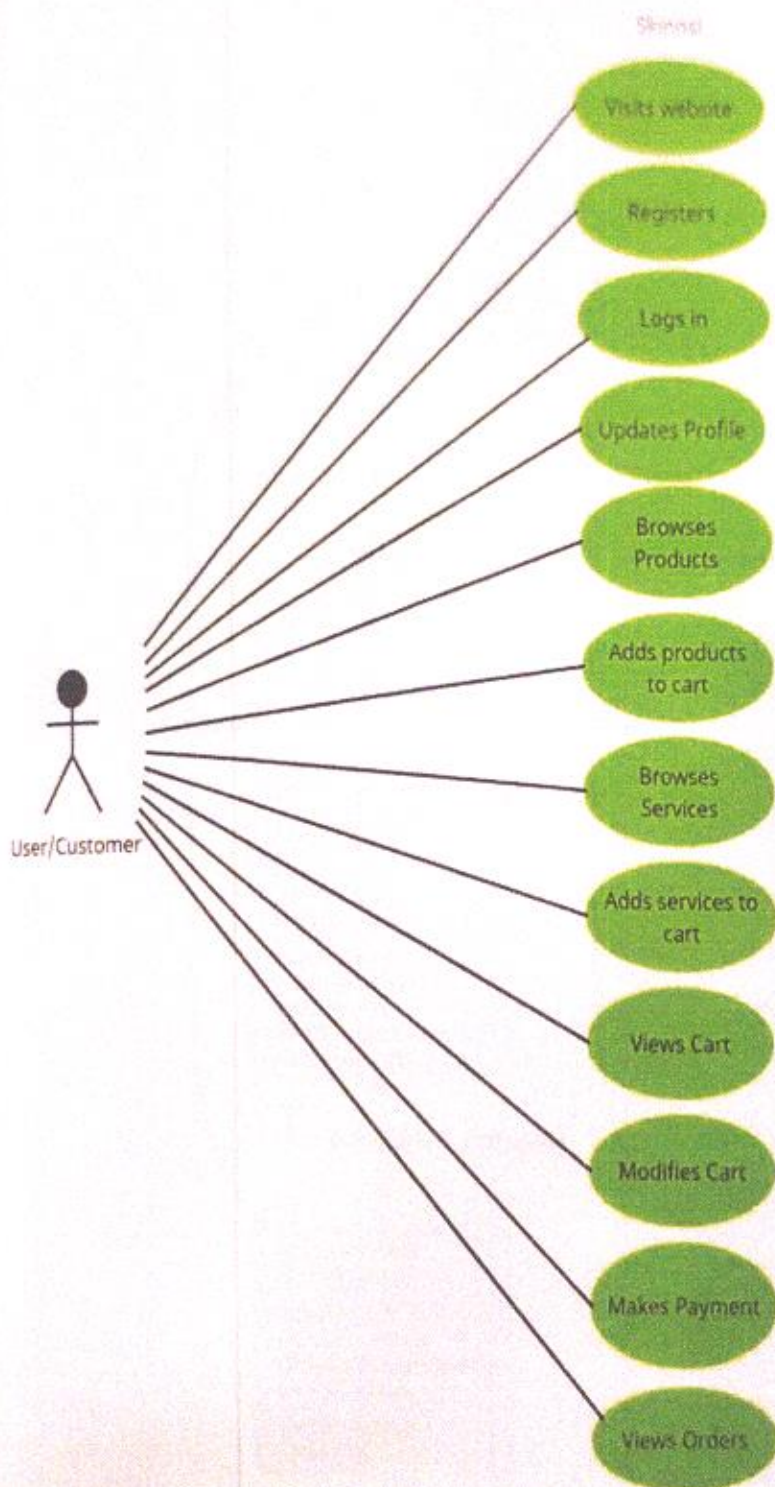
• Bill

FIELDS	DATATYPE	CONSTRAINTS	DESCRIPTION
Bid	int(12)	Primary Key	Bill ID
B_date	date	Not Null	Bill Date
Uid	int(12)	Foreign Key	User ID
Pid	int(12)	Foreign Key	Product ID
Sid	int(12)	Foreign Key	Service ID
Quantity	int(10)	Not Null	Total product quantity
total_price	float(6,2)	Not Null	Total Cost of Products and Services
B_address	varchar(200)	Not Null	Billing Address

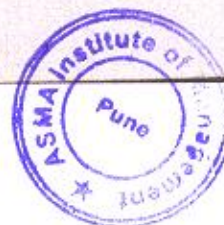
Director



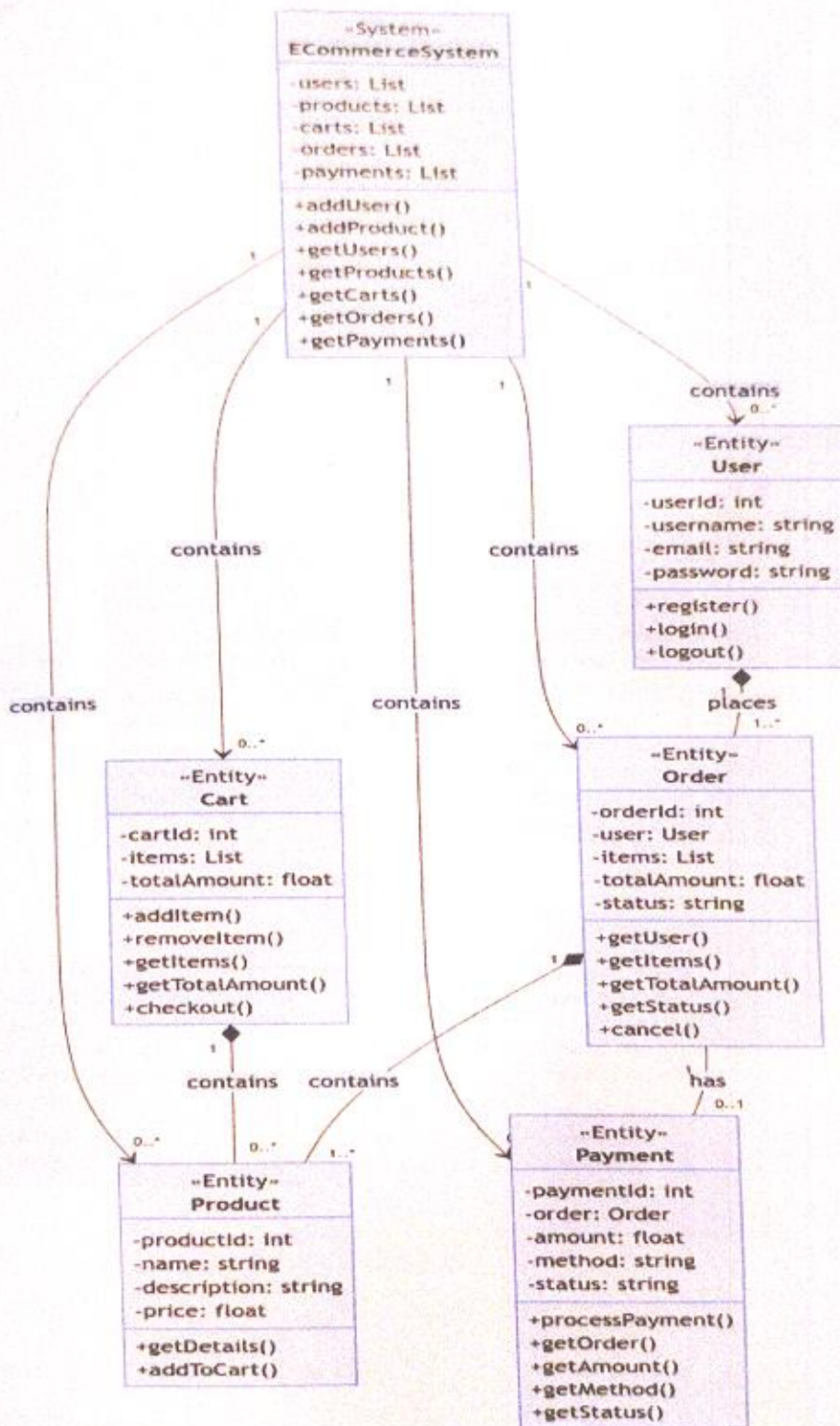
3.4 Use Case Diagrams:




Director



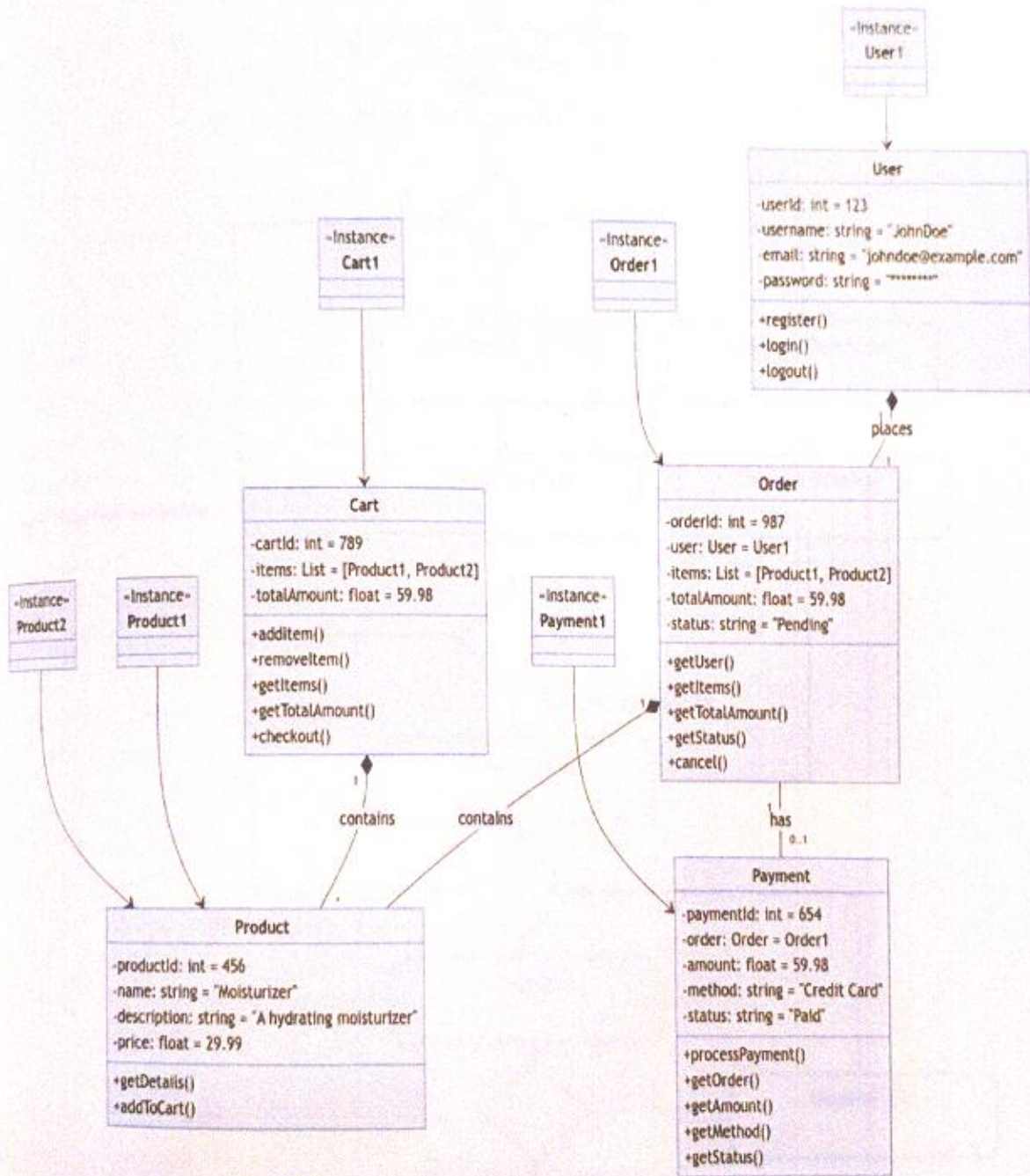
3.5 Class Diagram:



[Handwritten Signature]
 Director



Object Diagram



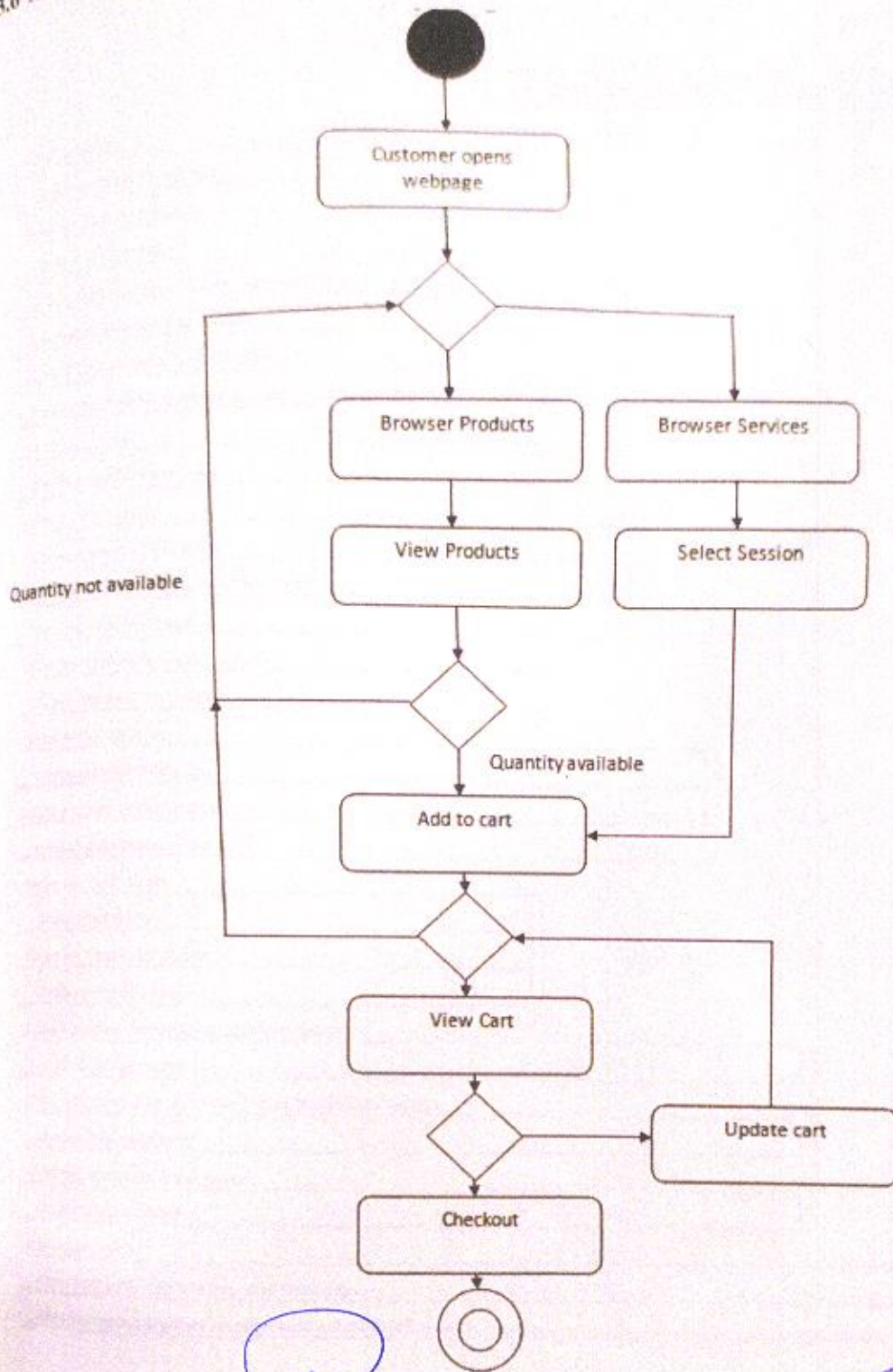
(Handwritten Signature)

Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



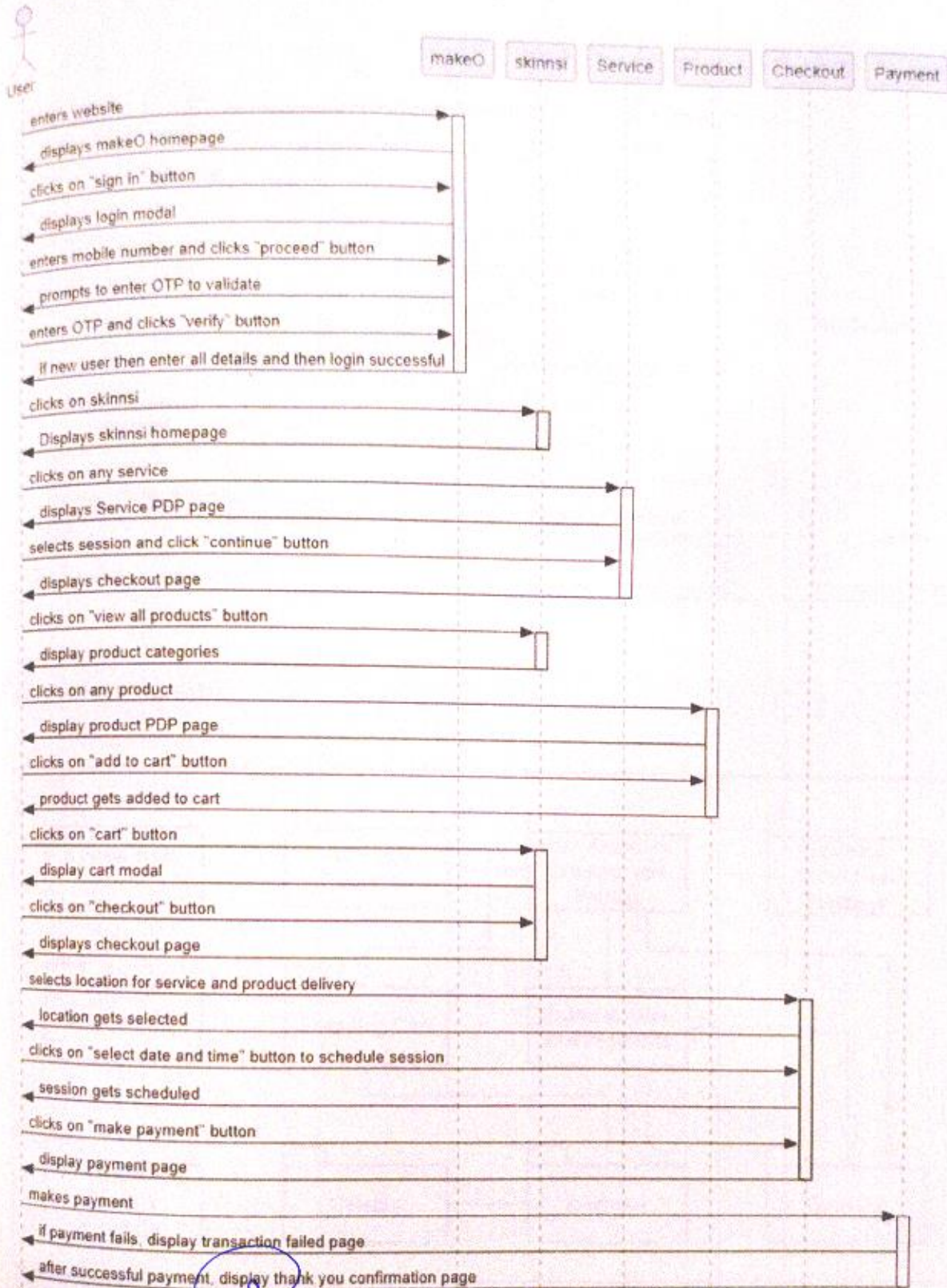
3.6 Activity Diagram:



[Handwritten Signature]
Director



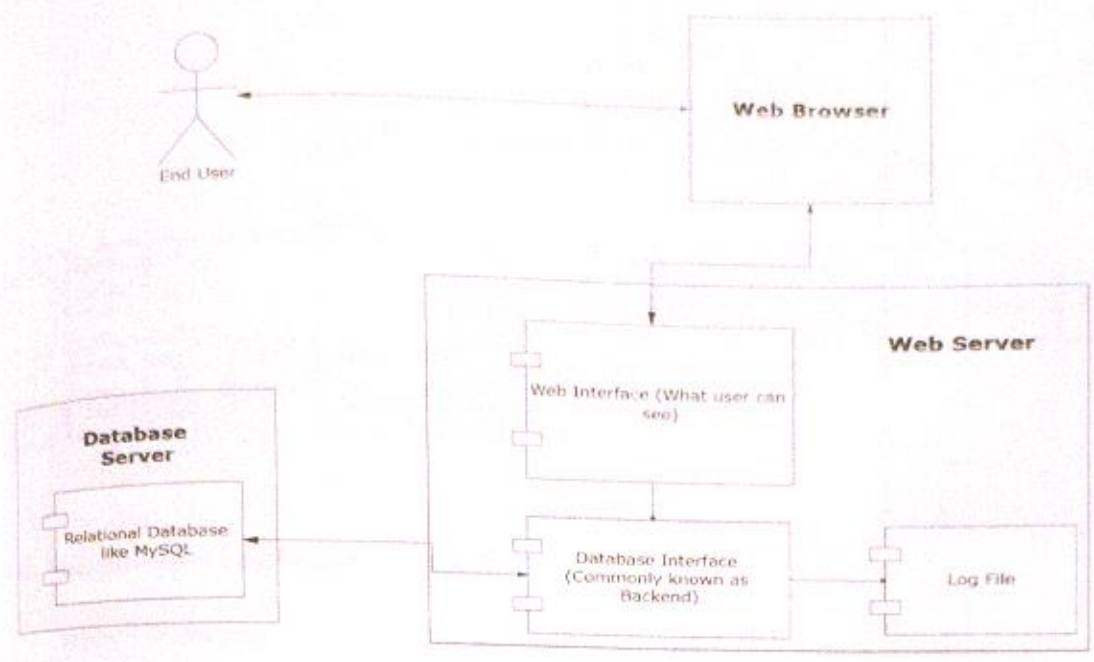
3.7 Sequence Diagram:



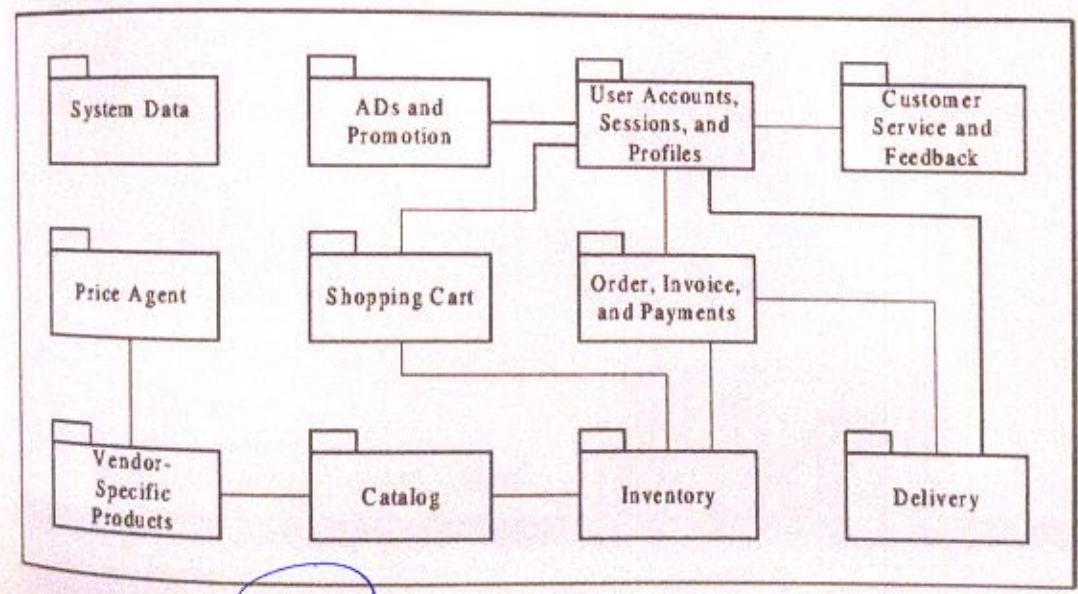
Director



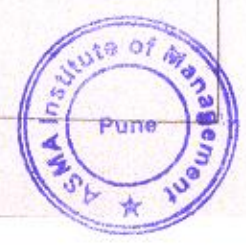
3.8 Deployment Diagram:



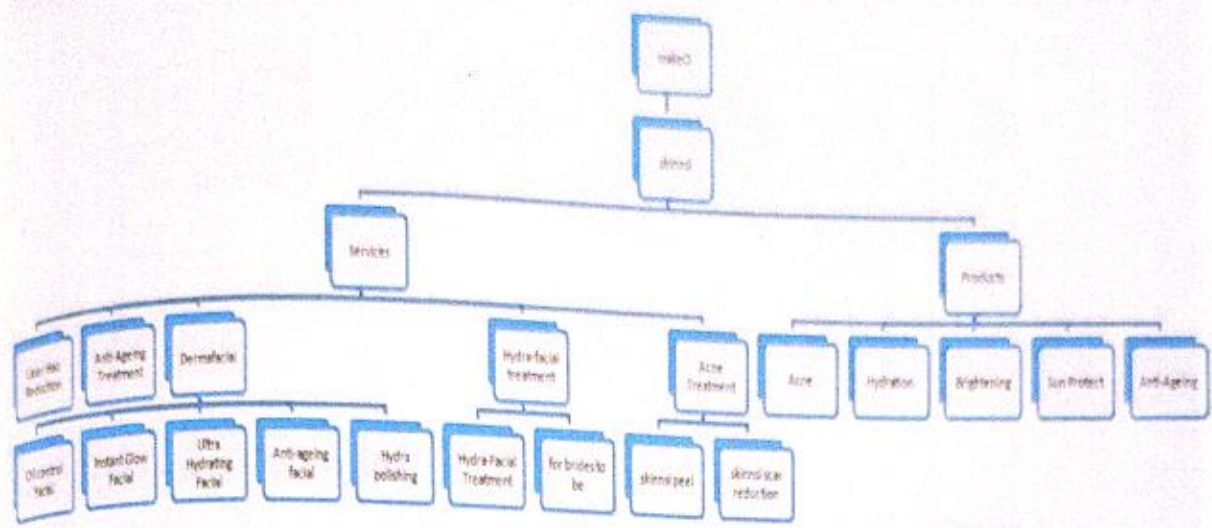
Component Diagram:



[Handwritten Signature]
Director

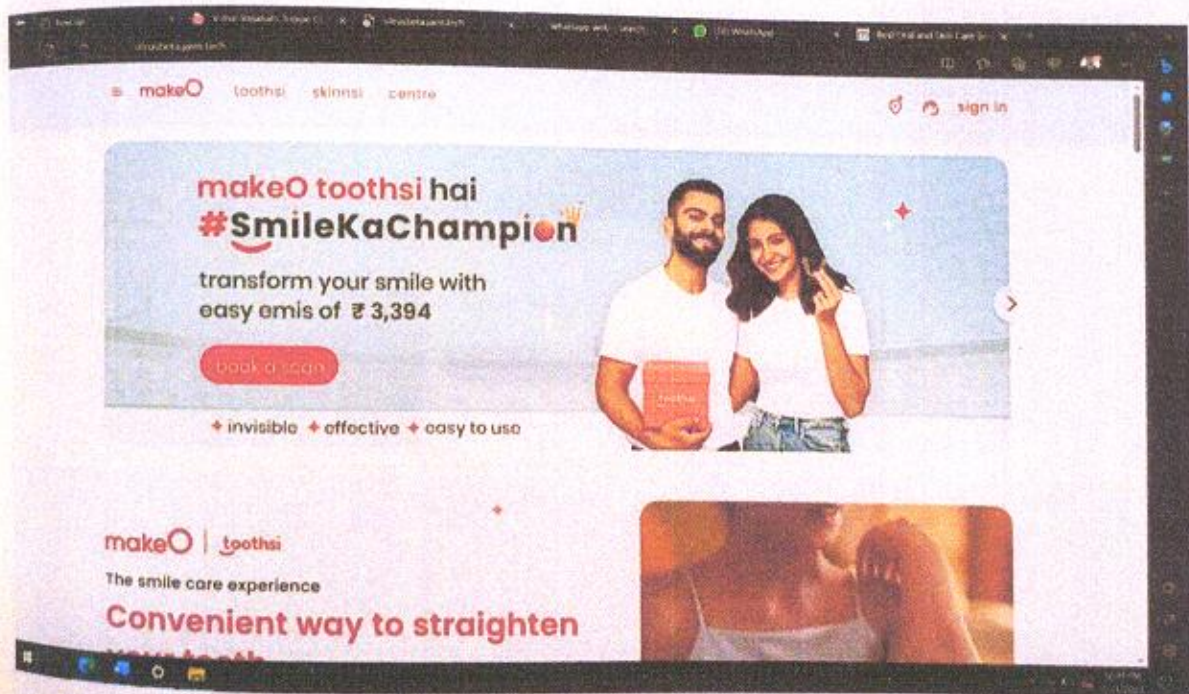


3.9 Module Hierarchy Diagram:



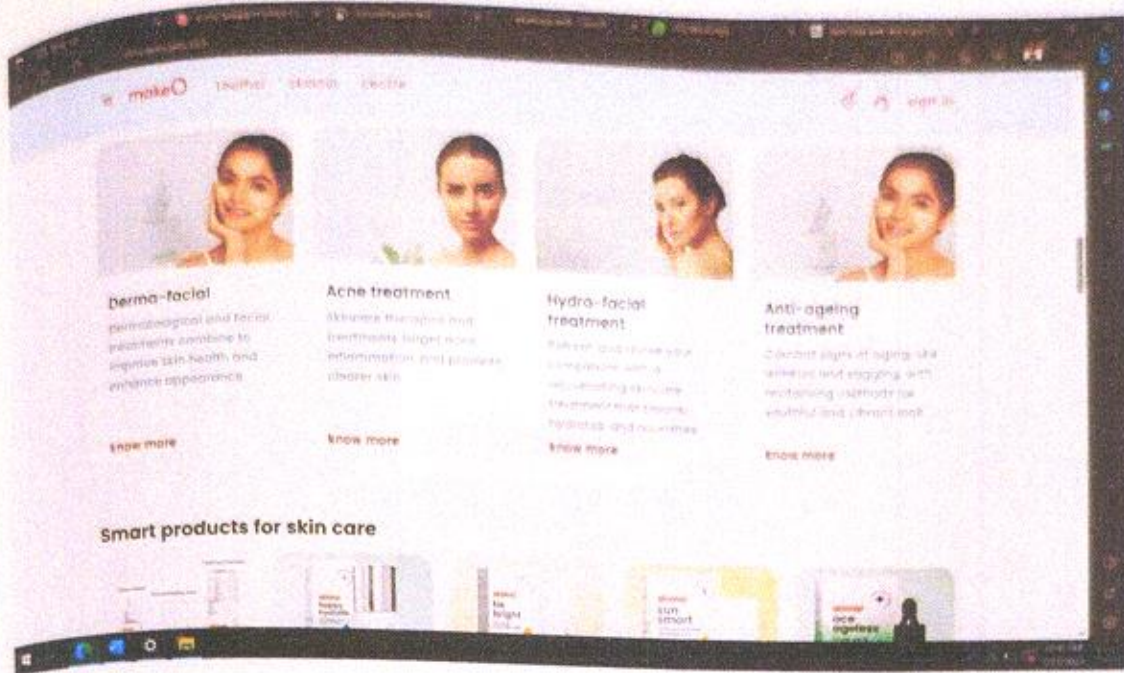
3.10 Sample Input and Output Screens:

- makeO Homepage

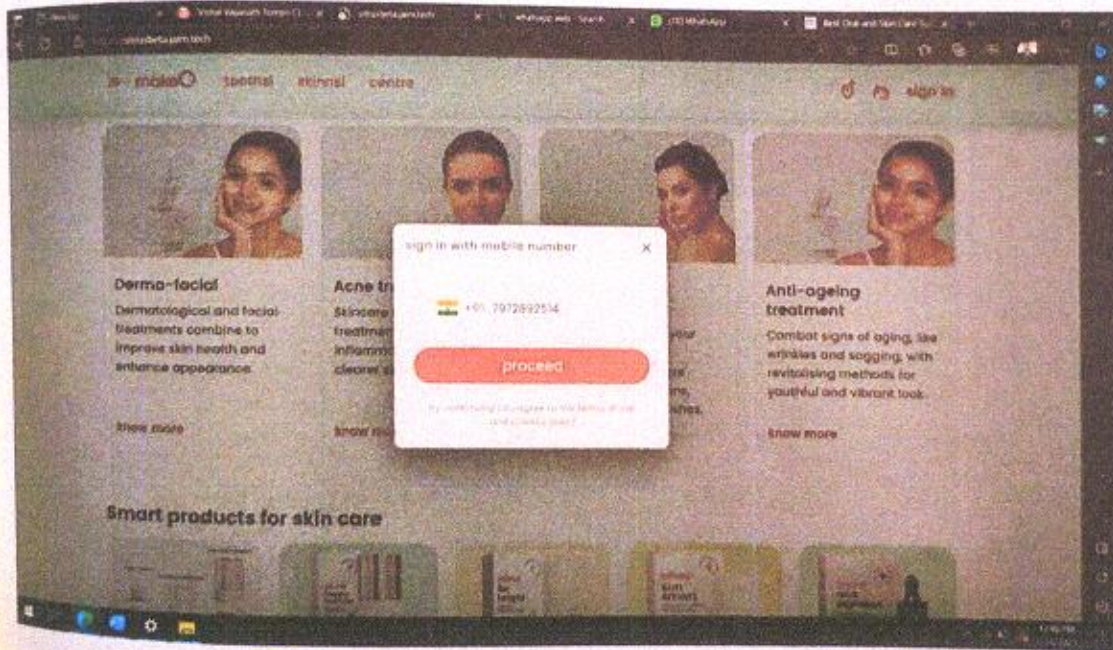


[Handwritten Signature]
Director



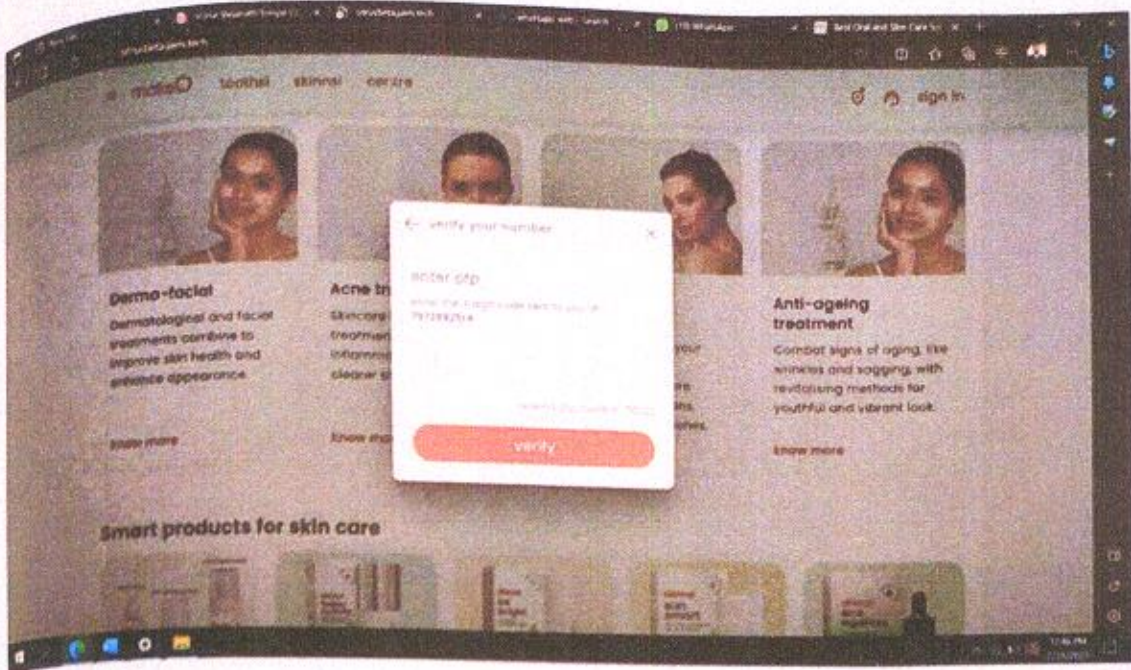


• Login Modal

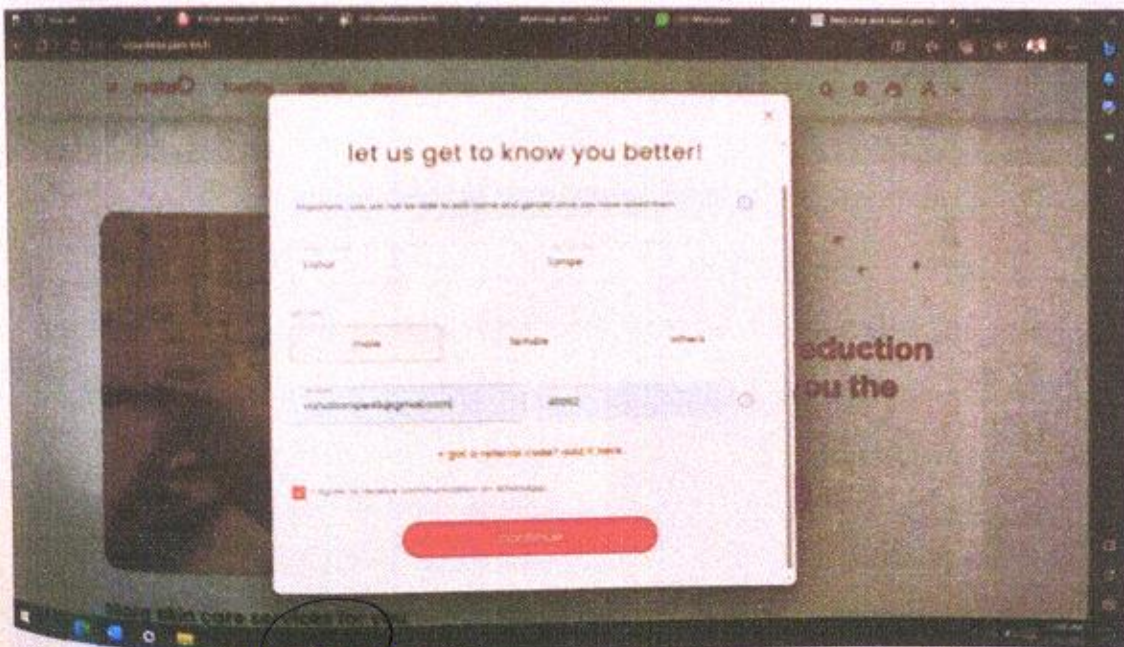


[Handwritten Signature]
 Director



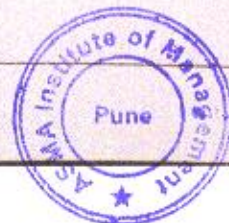


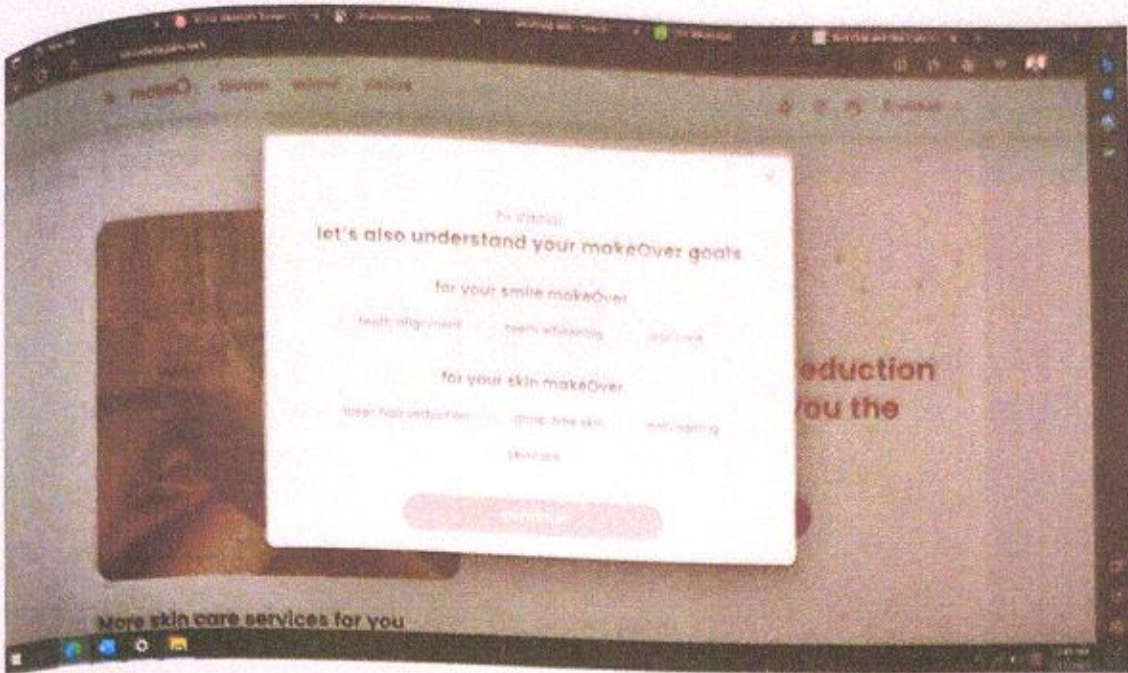
- Registration Page



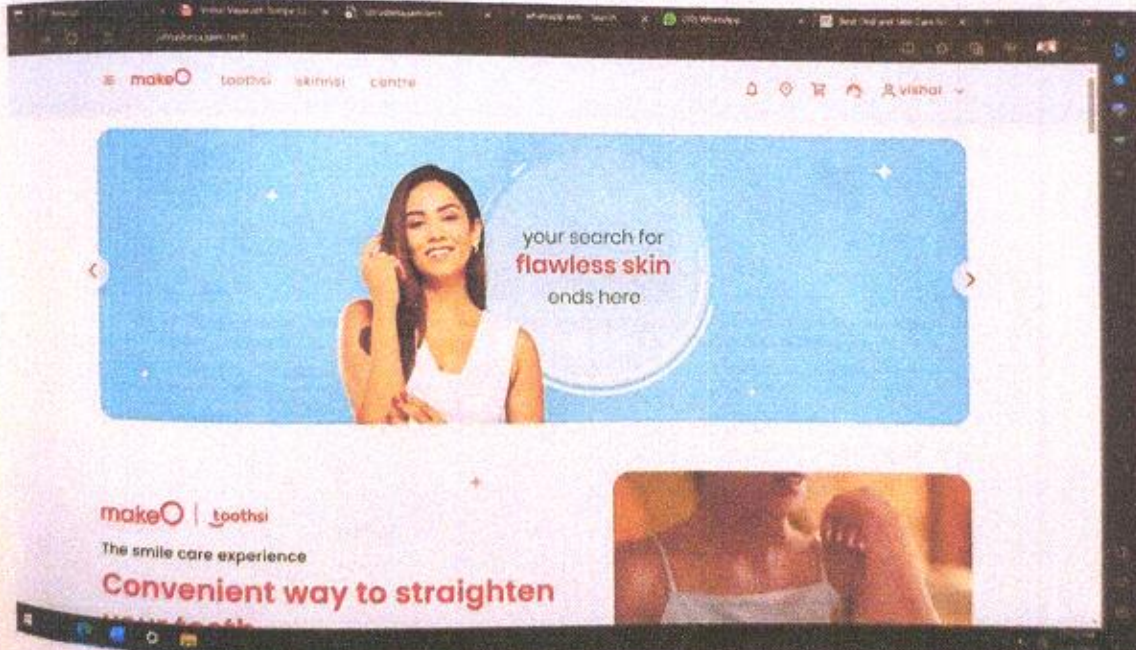
Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



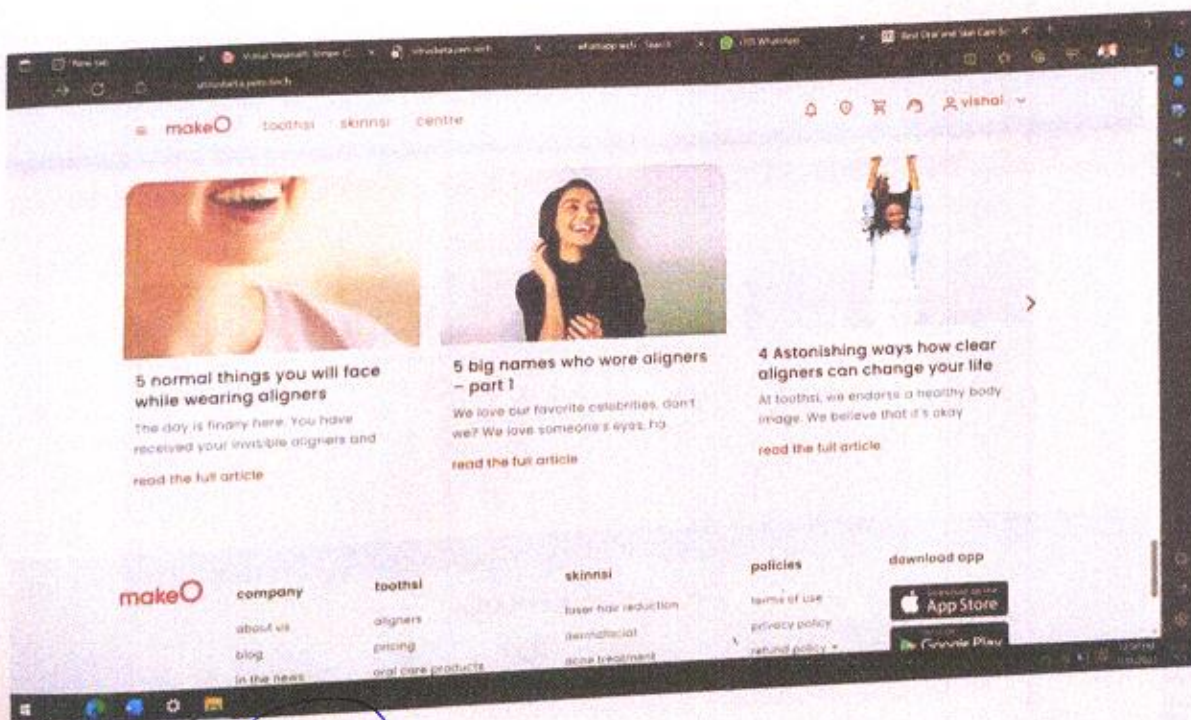
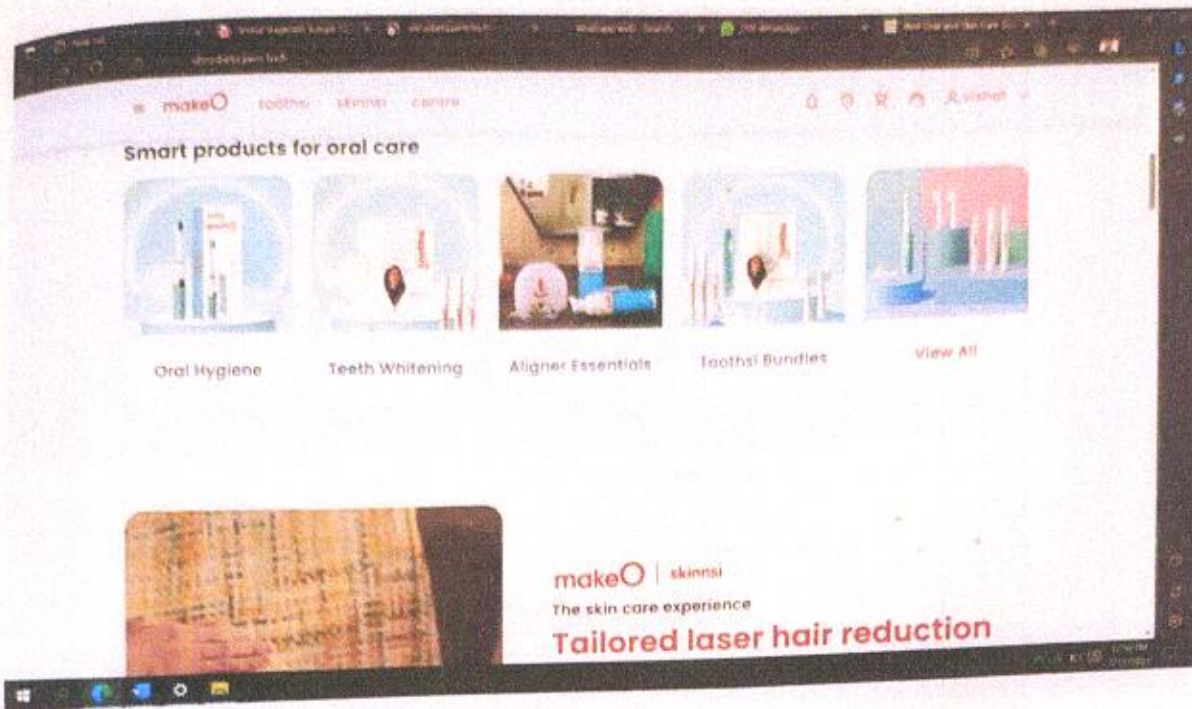


• Skinni Home Page

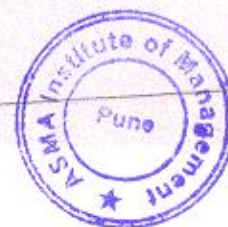


[Signature]
Director

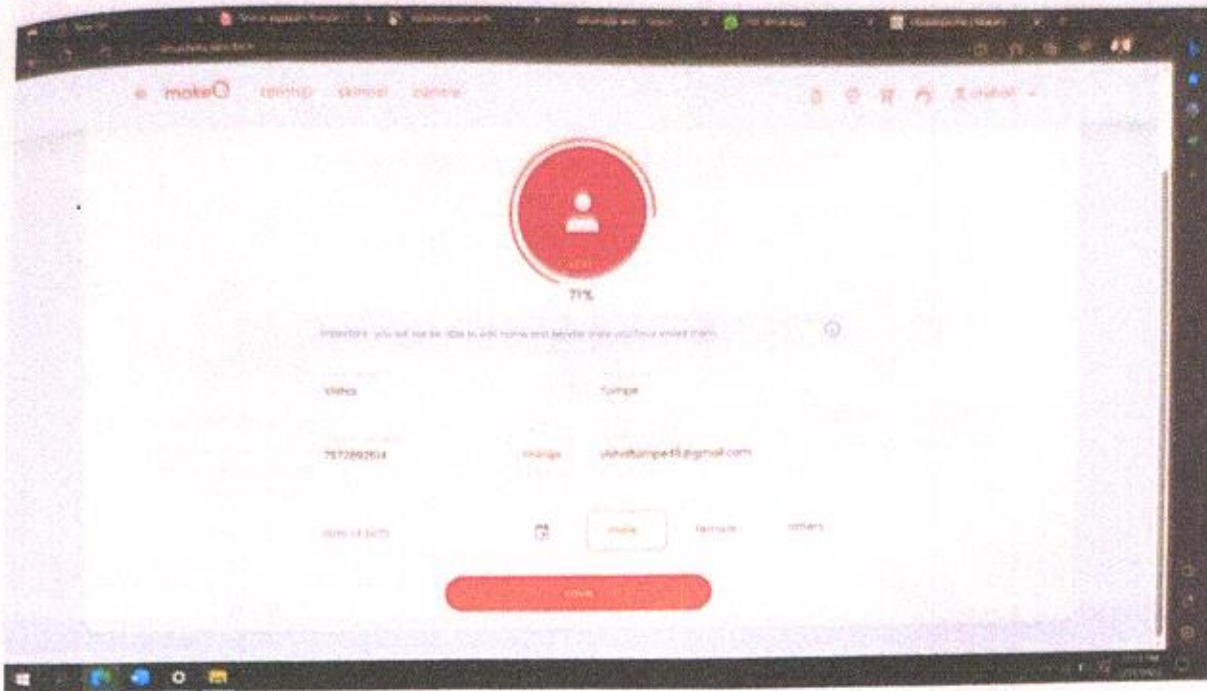




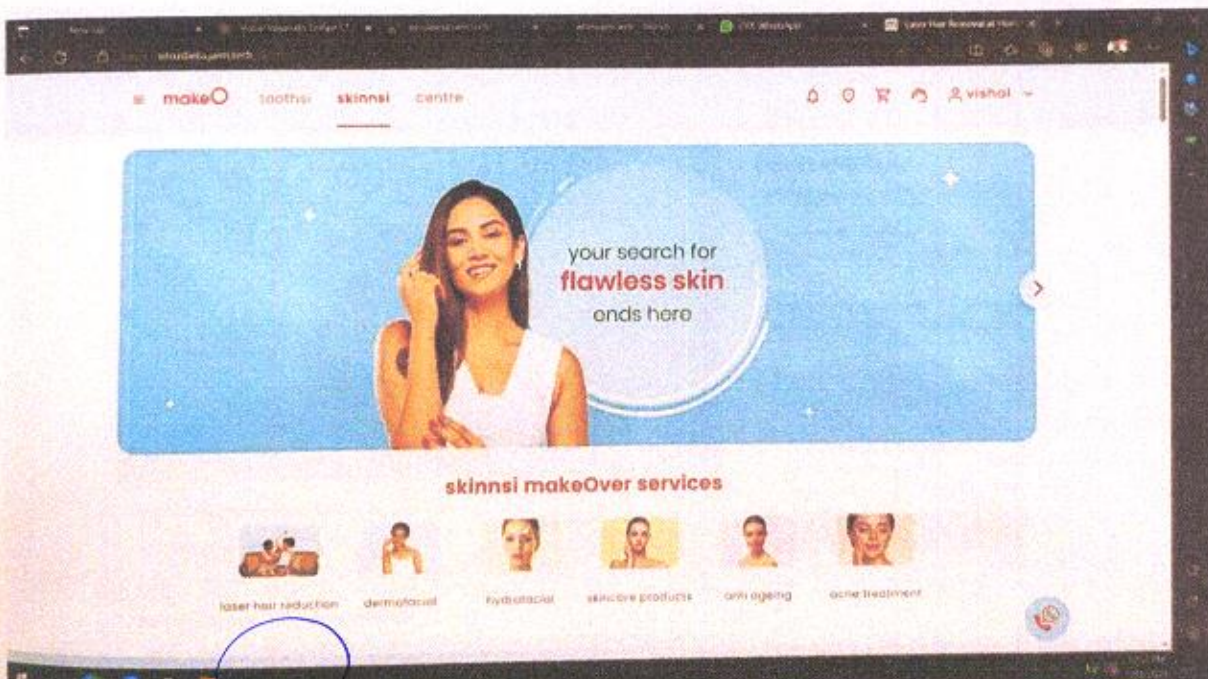
[Handwritten Signature]
Director



• Profile update page



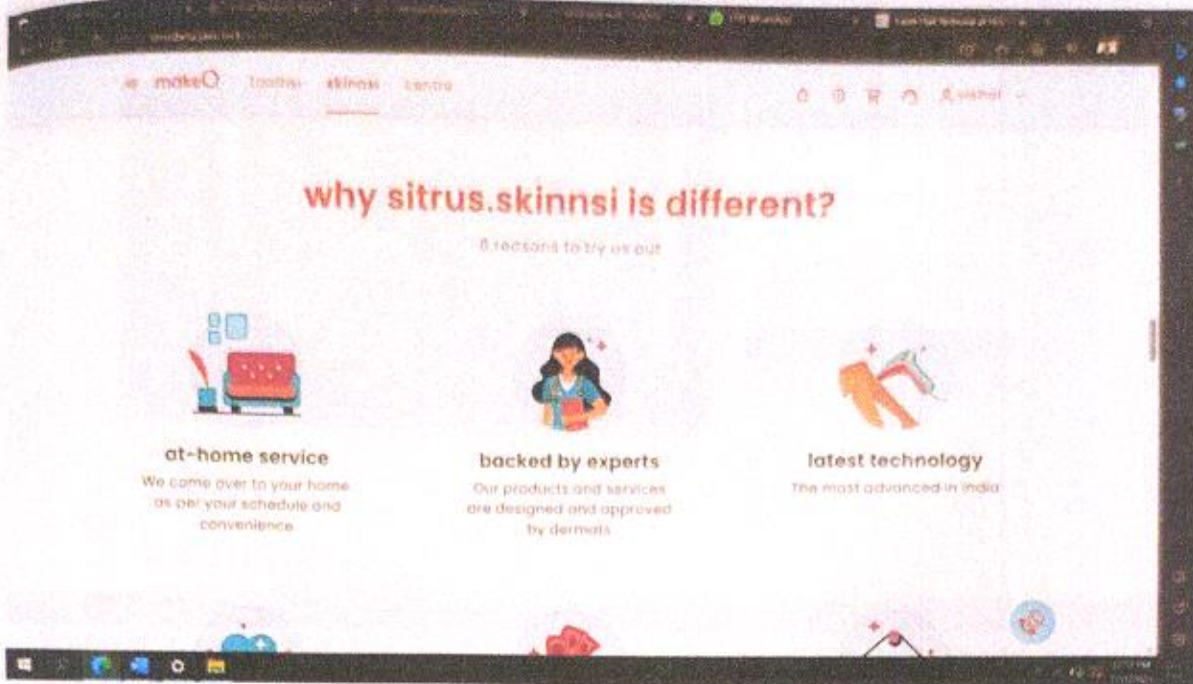
• Service Home page



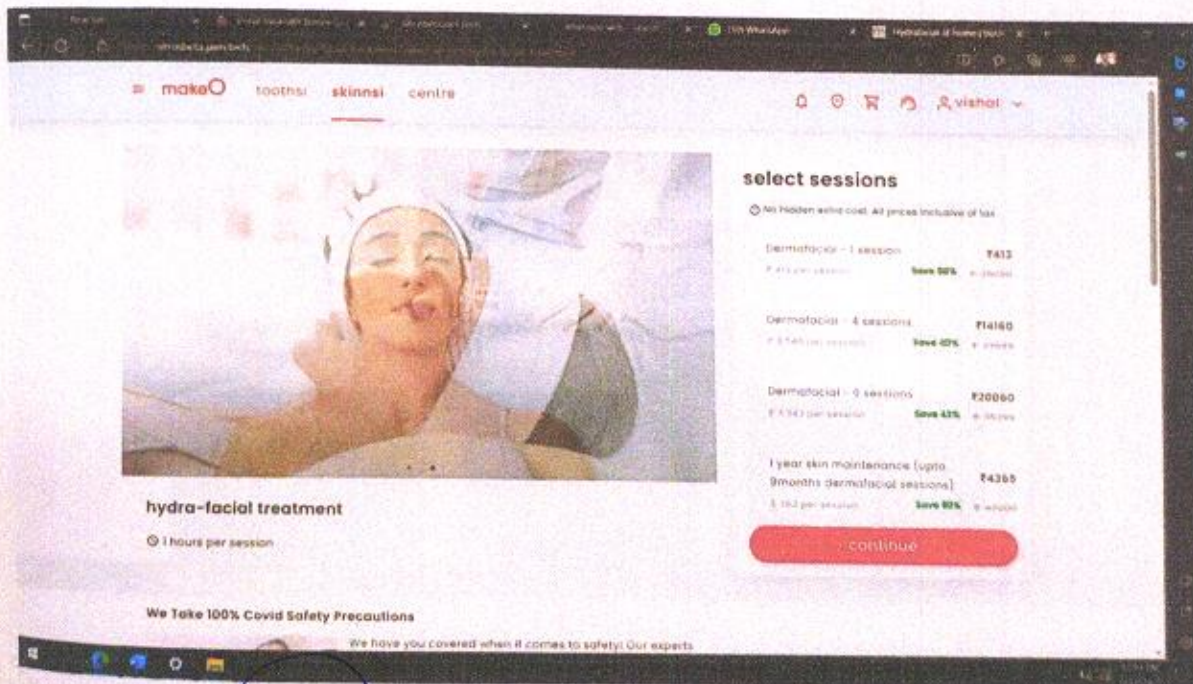
Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



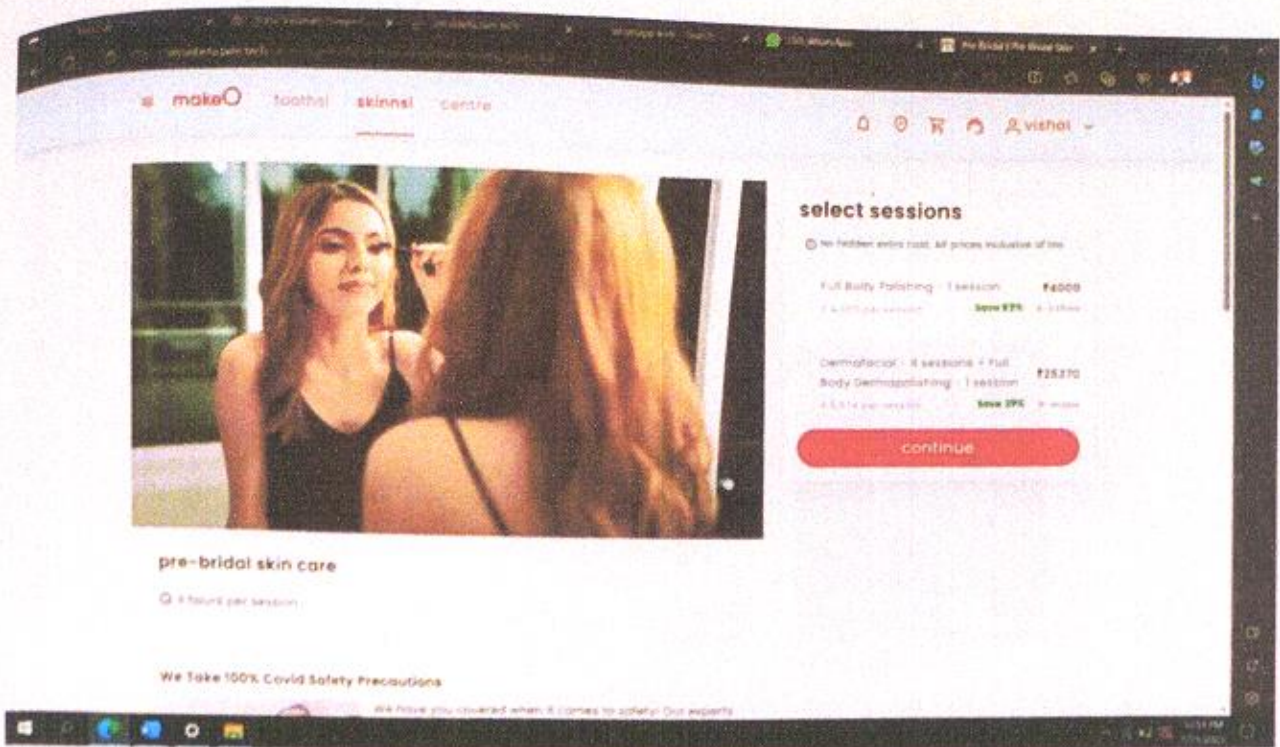


- Service PDP page

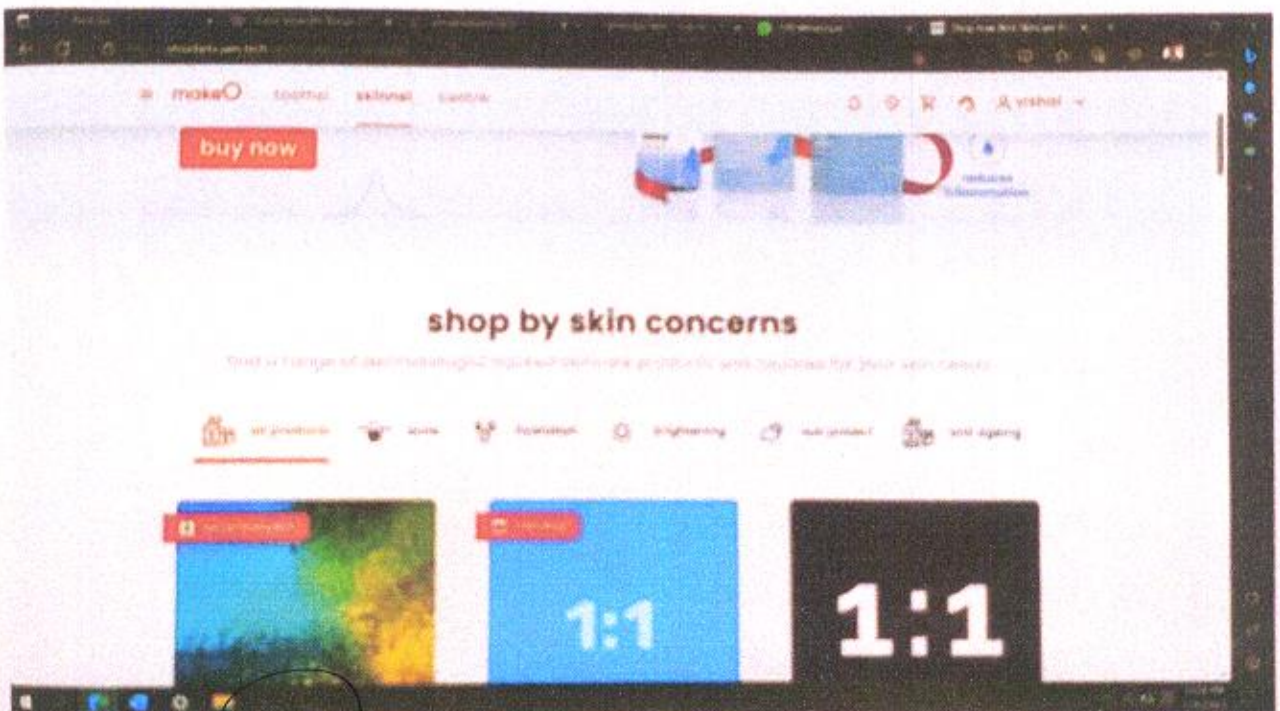


[Handwritten Signature]
Director





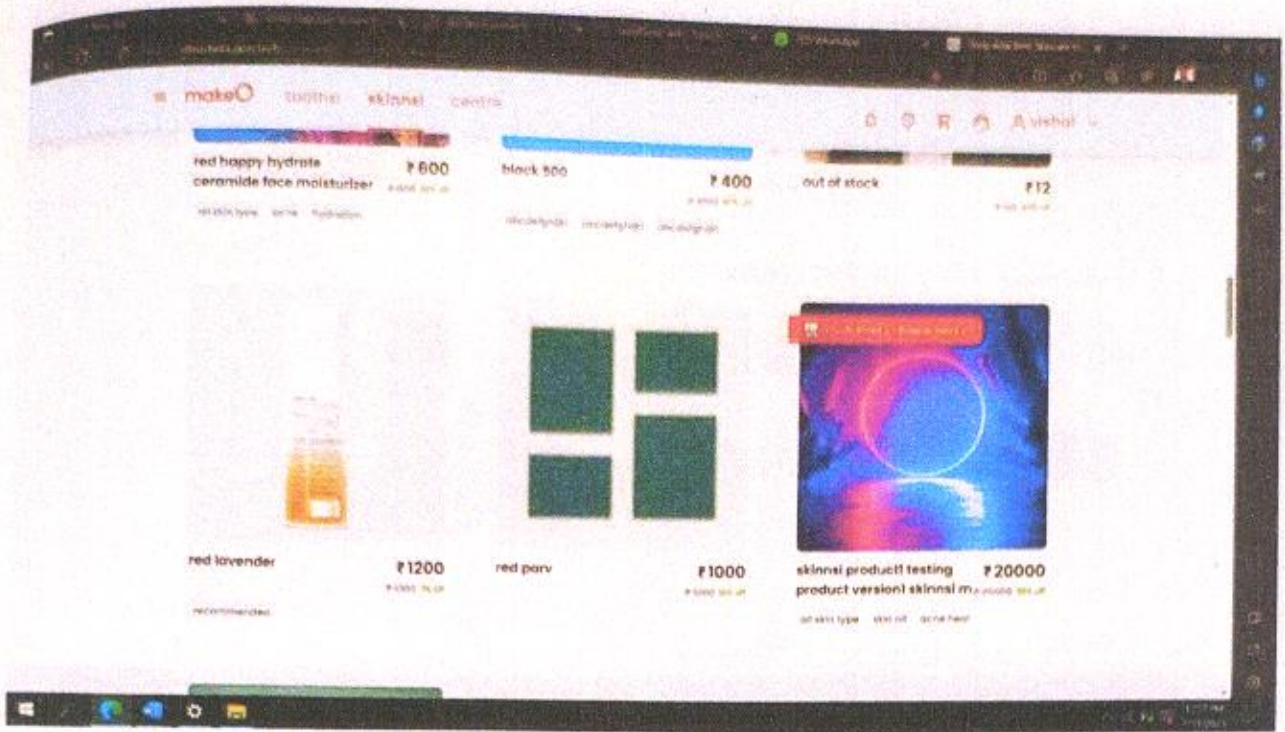
- Product List page



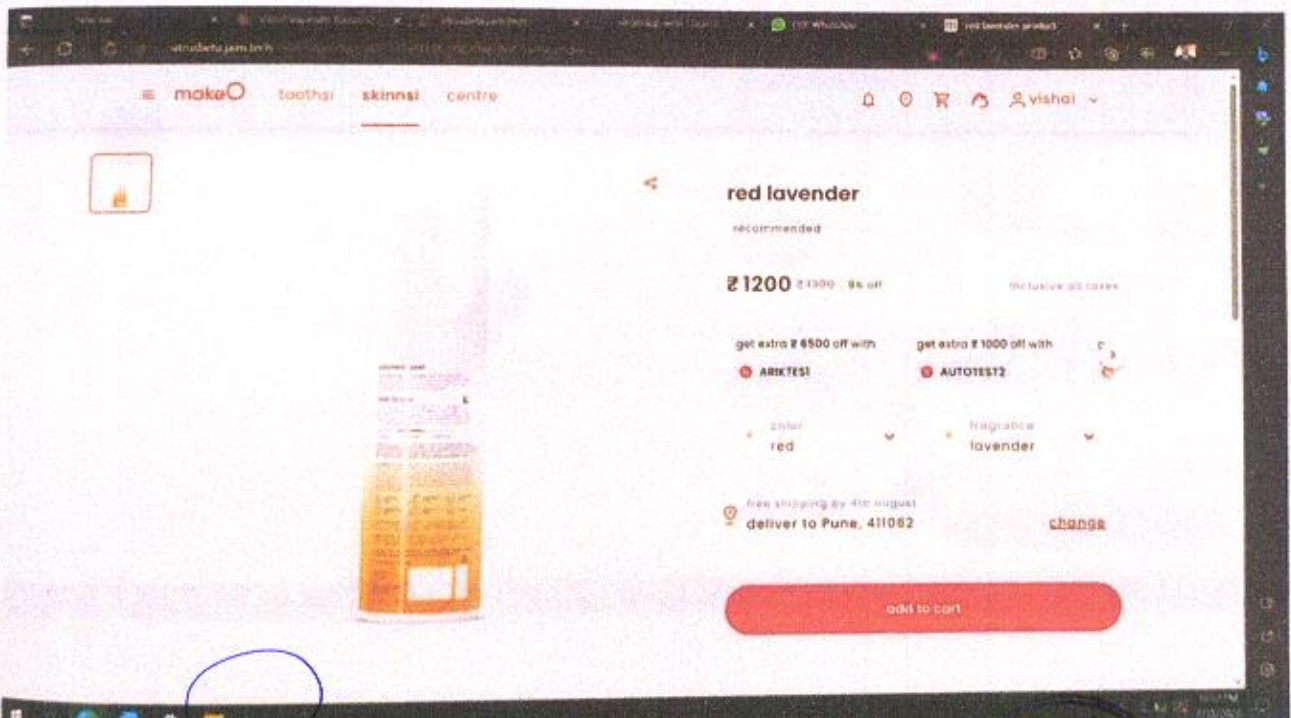
Director

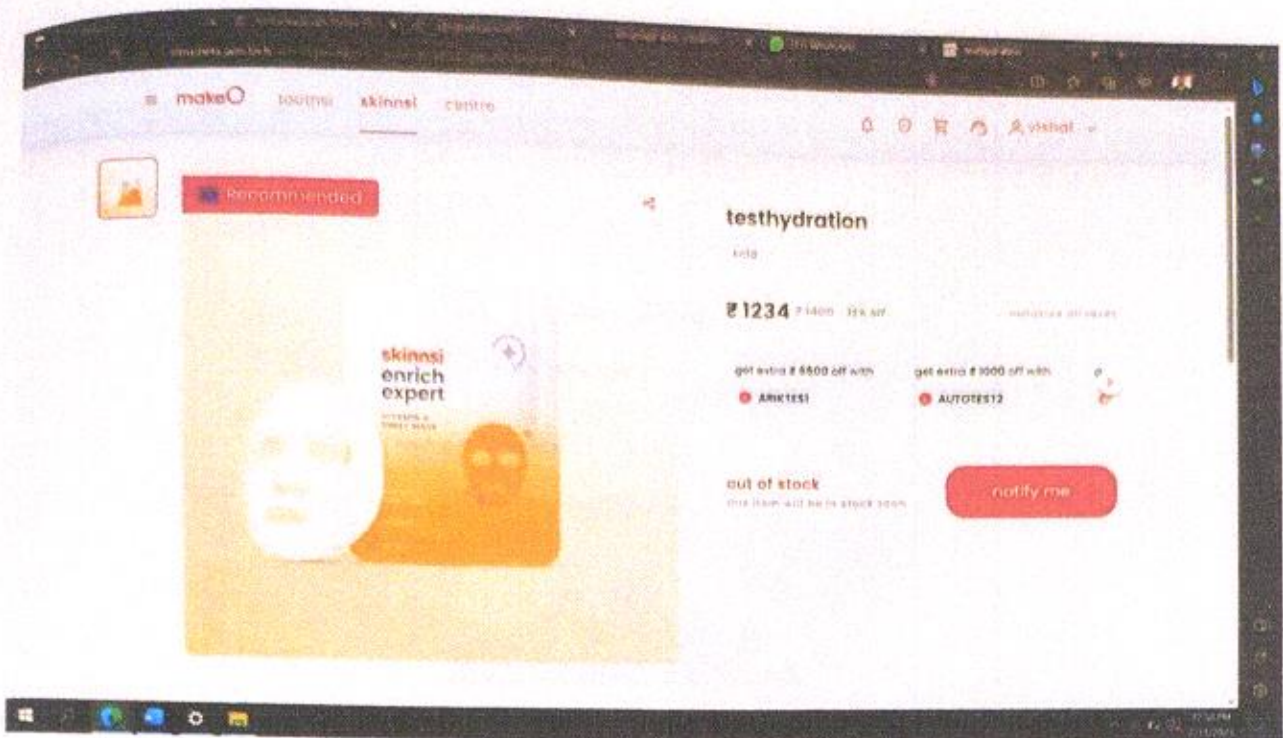
PSD Shastri Educational Foundation's
ASMA Institute of Management



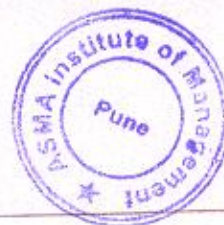
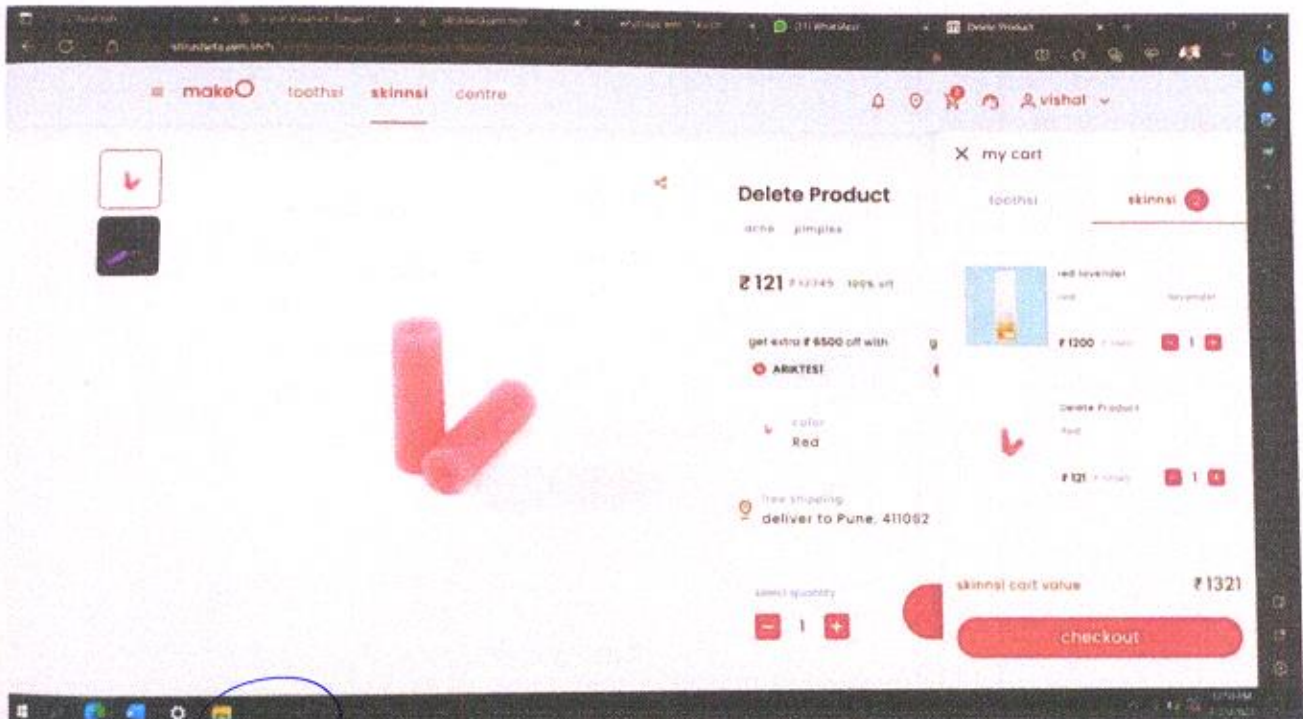


- Product PDP page

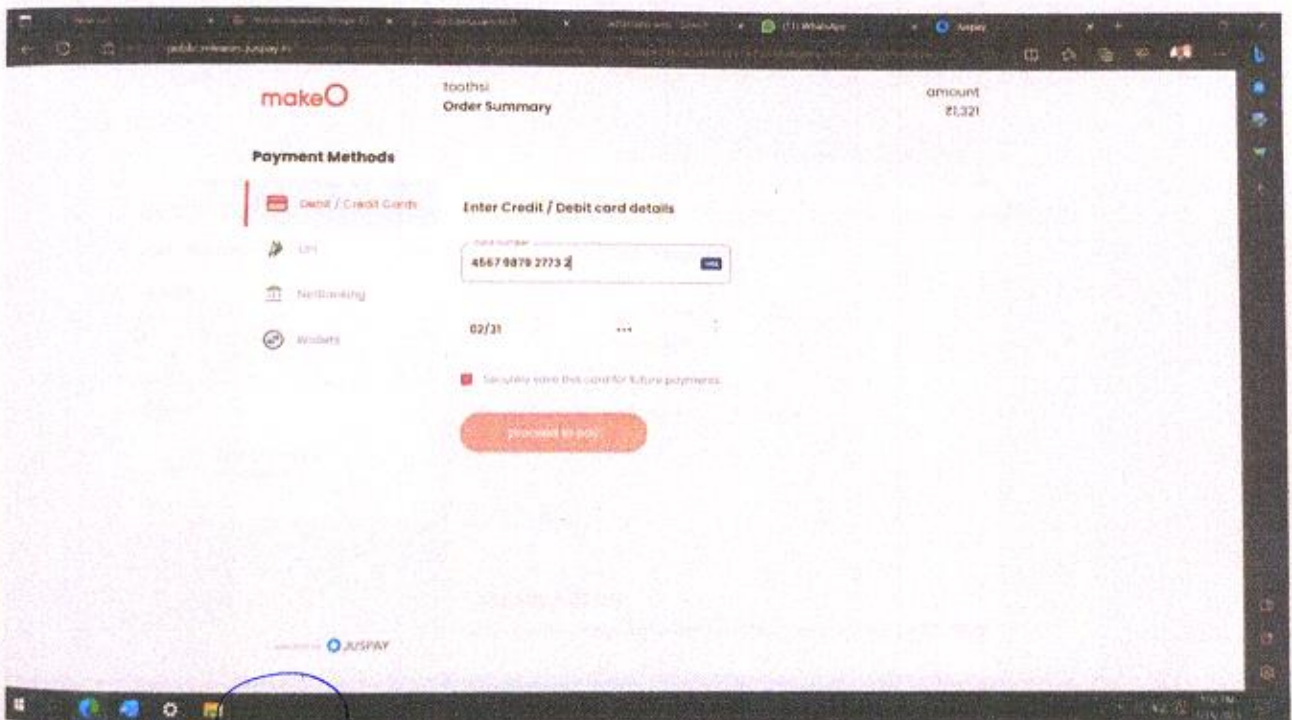
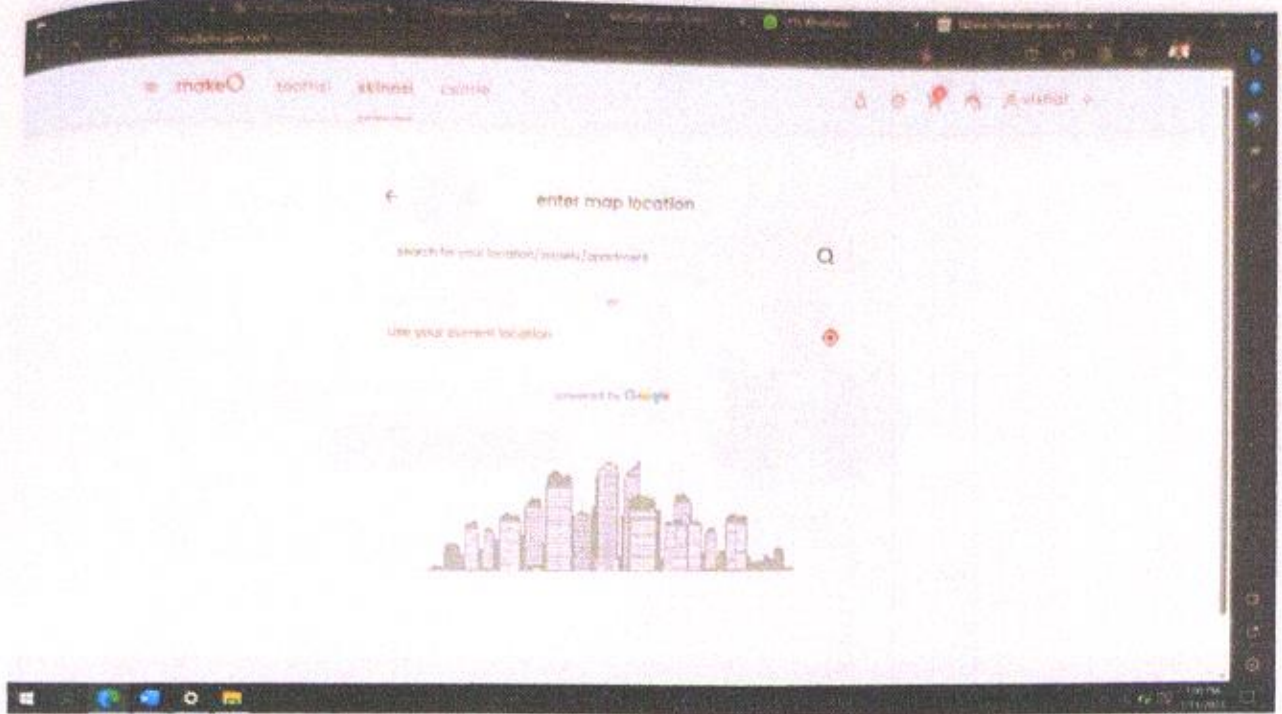




• Cart Modal



• Checkout Page

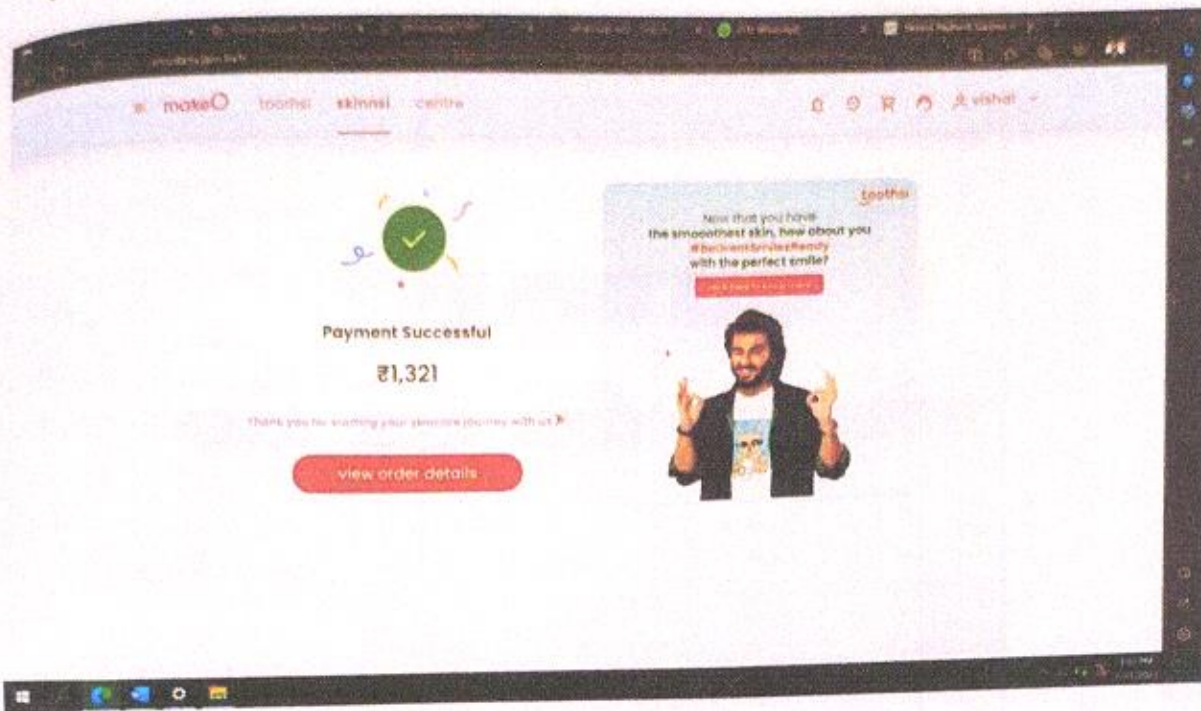


Director

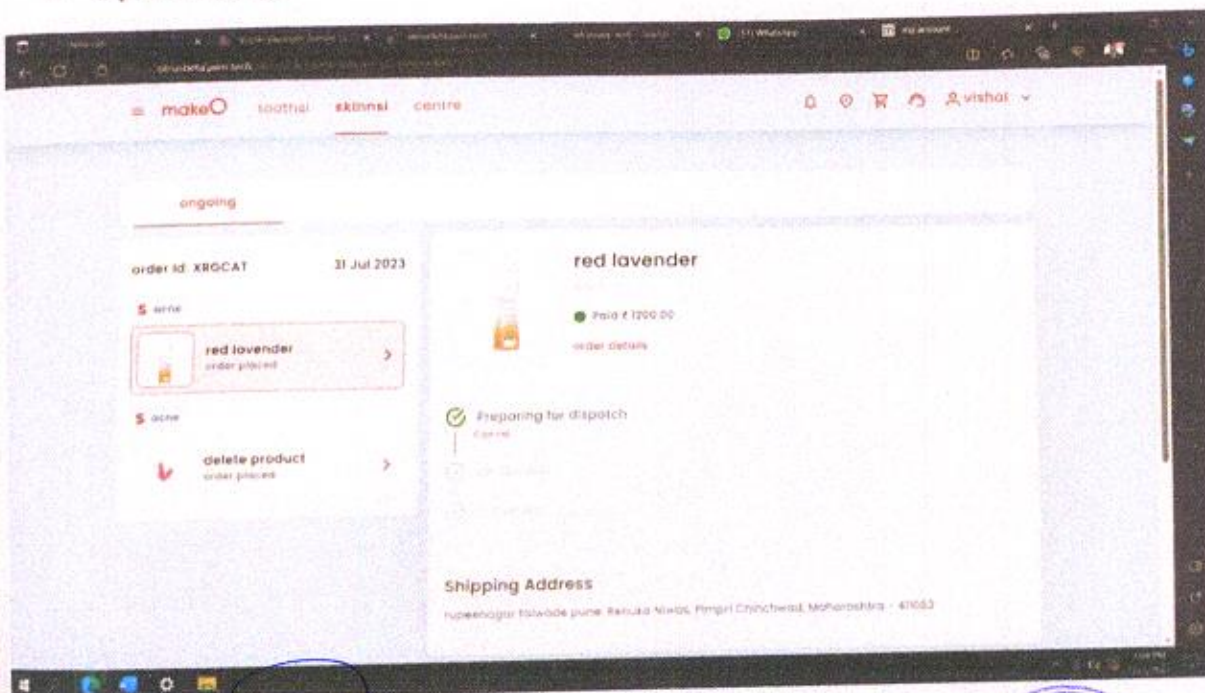
PSD Shastri Educational Foundation's
ASMA Institute of Management




• Transaction Successful/Failed Page



• My orders page




Director
PSD Shastri Educational Foundation's
ASMA Institute of Management



Chapter 4

Coding

4.1 Code snippets

- makeO Homepage

```
public class SkincareProduct {
    private String name;
    private double price;
    private String description;
    private String[] ingredients;

    public SkincareProduct(String name, double price, String description, String[] ingredients) {
        this.name = name;
        this.price = price;
        this.description = description;
        this.ingredients = ingredients;
    }

    public void displayInfo() {
        System.out.println("Product: " + name);
        System.out.println("Price: $" + price);
        System.out.println("Description: " + description);
        System.out.print("Ingredients: ");
        for (int i = 0; i < ingredients.length; i++) {
            System.out.print(ingredients[i]);
            if (i < ingredients.length - 1) {
                System.out.print(", ");
            }
        }
        System.out.println();
    }
}
```


Director



• Login Modal

```
import java.util.Scanner;

public class LoginModule {
    // Simulated user database (hardcoded credentials)
    private static final String VALID_USERNAME = "user123";
    private static final String VALID_PASSWORD = "pass123";

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        // Get user input
        System.out.print("Enter username: ");
        String enteredUsername = scanner.nextLine();
        System.out.print("Enter password: ");
        String enteredPassword = scanner.nextLine();

        // Check if the entered credentials match the valid credentials
        if (isValidLogin(enteredUsername, enteredPassword)) {
            System.out.println("Login successful! Welcome. " + enteredUsername + ".");
            // Add your code here for what to do after a successful login.
        } else {
            System.out.println("Invalid username or password. Please try again.");
            // Add your code here for handling failed login attempts.
        }

        scanner.close();
    }

    // Function to validate login credentials
    private static boolean isValidLogin(String username, String password) {

```

Director

PSD Shastri Educational Foundation's
ASMA Institute of Management




```
return username.equals(VALID_USERNAME) && password.equals(VALID_PASSWORD);
```

• Registration Page

```
import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;
```

```
public class RegistrationPage {
    static class User {
        private String username;
        private String email;
        private String password;
```

```
    public User(String username, String email, String password) {
        this.username = username;
        this.email = email;
        this.password = password;
    }
```

```
    // Getters and setters (optional, but useful in real applications)
    // Add more fields and methods as needed for your project.
}
```

```
private static List<User> users = new ArrayList<>();
```

```
public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
```

```
    System.out.println("Welcome to the Skincare Product Registration Page!");
    System.out.println("Please enter your information below.");
```

```
    System.out.print("Username: ");
    String username = scanner.nextLine();
```

```
    System.out.print("Email: ");
    String email = scanner.nextLine();
```

```
    System.out.print("Password: ");
    String password = scanner.nextLine();
```

```
    System.out.print("Confirm Password: ");
    String confirmPassword = scanner.nextLine();
```

```
    if (password.equals(confirmPassword)) {
        // Create a new User object and add it to the list
```

Director




```
User newUser = new User(username, email, password);
users.add(newUser);
```

```
System.out.println("Registration successful! Thank you for registering.");
// Add your code here for what to do after successful registration.
```

```
} else {
```

```
System.out.println("Password and Confirm Password do not match. Please try again.");
// Add your code here for handling password mismatch.
```

```
}
```

```
scanner.close();
```

```
}
```

```
}
```

- Profile update page

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
  xmlns:h="http://java.sun.com/jsf/html">
```

```
<head>
```

```
  <title>Profile Update</title>
```

```
</head>
```

```
<body>
```

```
  <h1>Update Your Profile</h1>
```

```
  <h:form>
```

```
    <h:outputLabel for="name" value="Name:" />
```

```
    <h:inputText id="name" value="#{profileBean.name}" required="true" /><br />
```

```
    <h:outputLabel for="email" value="Email:" />
```

```
    <h:inputText id="email" value="#{profileBean.email}" required="true" /><br />
```

```
    <h:outputLabel for="dob" value="Date of Birth:" />
```

```
    <h:inputText id="dob" value="#{profileBean.dateOfBirth}" required="true" /><br />
```

```
    <h:commandButton value="Update Profile" action="#{profileBean.updateProfile}" />
```

```
  </h:form>
```

```
</body>
```



Director



- Product List page

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:h="http://java.sun.com/jsf/html">
<head>
  <title>Profile Update</title>
</head>
<body>
  <h1>Update Your Profile</h1>
  <h:form>
    <h:outputLabel for="name" value="Name:" />
    <h:inputText id="name" value="#{profileBean.name}" required="true" /><br />

    <h:outputLabel for="email" value="Email:" />
    <h:inputText id="email" value="#{profileBean.email}" required="true" /><br />

    <h:outputLabel for="dob" value="Date of Birth:" />
    <h:inputText id="dob" value="#{profileBean.dateOfBirth}" required="true" /><br />

    <h:commandButton value="Update Profile" action="#{profileBean.updateProfile}" />
  </h:form>
</body>
</html>
```

- Cart Modal

```
public class Product {
  private int id;
  private String name;
  private double price;
```


Director




```
public Product(int id, String name, double price) {  
    this.id = id;  
    this.name = name;  
    this.price = price;  
}
```

```
// Getters and setters for the properties (id, name, price)
```

```
public int getId() {  
    return id;  
}
```

```
public void setId(int id) {  
    this.id = id;  
}
```

```
public String getName() {  
    return name;  
}
```

```
public void setName(String name) {  
    this.name = name;  
}
```

```
public double getPrice() {  
    return price;  
}
```

```
public void setPrice(double price) {  
    this.price = price;  
}
```

Director
PSD Shastri Educational Foundation's
ASMA Institute of Management



- **Payment Page**

```
public class PaymentGateway {  
    public static boolean processPayment(String cardNumber, double amount) {  
        // Implement your payment gateway logic here.  
        // For this example, let's assume the payment is successful if the card number is valid.  
        // In a real-world application, you would integrate with a payment gateway service.  
  
        // Dummy implementation: Check if the card number has 16 digits.  
        if (cardNumber != null && cardNumber.matches("\\d{16}")) {  
            return true;  
        } else {  
            return false;  
        }  
    }  
}
```

- **My orders page**

```
public class OrderItem {  
    private int productId;  
    private String productName;  
    private double productPrice;  
    private int quantity;  
  
    public OrderItem(int productId, String productName, double productPrice, int quantity) {  
        this.productId = productId;  
        this.productName = productName;  
        this.productPrice = productPrice;  
        this.quantity = quantity;  
    }  
  
    // Getters and setters for the properties (productId, productName, productPrice, quantity)  
  
    // ...
```



Chapter 5

Testing

5.1 Test Procedures and Implementations:

Testing is the exposure of system to trial input to see whether it produces correct output. Testing assumes requirements that are already validated. Testing cannot guarantee correctness, no method can guarantee correctness. Testing is the process of detecting presence of faults. Debugging is the process of locating and correcting faults. Once source code has been generated, software must be tested to uncover as many errors as possible before delivery to your customer. Our goal is to design a series of test cases that have a high likelihood of finding errors. That's where Software Testing techniques enter the picture.

A set of test cases designed to exercise both internal logic and external requirements is designed and documented, expected results are defined and actual results are recorded.

5.2 Test Strategy:

The Fitness app is a complex system that requires rigorous testing to ensure that it meets the requirements and works reliably across a range of devices and operating systems. The following test strategy will be employed to ensure that the app is thoroughly tested and meets the required quality standards.

Unit Testing:

Unit testing will be conducted to ensure that each individual component of the app works as expected. This includes testing individual functions and classes, as well as ensuring that the user interface is responsive and intuitive.

Integration Testing:

Integration testing will be conducted to ensure that all the components of the app work together as expected. This includes testing the communication between the front-end and back-end systems and ensuring that data is being transferred correctly.

Compatibility Testing:

Compatibility testing will be conducted to ensure that the app works reliably across a range of devices and operating systems. The app will be tested on various Android devices running different versions of the Android OS to ensure that it works reliably on all devices.

Performance Testing:

Performance testing will be conducted to ensure that the app is fast, responsive, and reliable. This includes testing the app's load times, response times, and the app's ability to handle multiple user requests simultaneously.

Security Testing:

Security testing will be conducted to ensure that the app is secure and user data is protected. This includes testing the app's user authentication system, data encryption, and ensuring that user data is not accessible to unauthorized parties.



User Acceptance Testing:

User acceptance testing will be conducted to ensure that the app meets user requirements and is easy to use. This includes testing the app with actual Fitness app members to gather feedback and identify areas for improvement.

5.3 Unit Test Plan:

The Fitness App is a complex system that requires thorough testing at the unit level to ensure that each individual component of the app works as expected. The following is a sample unit test plan for the app:

User Interface Testing:

- a. Verify that all buttons, text fields, and other UI elements are functional and responsive.
- b. Verify that the UI elements are arranged logically and are easy to use.
- c. Verify that the UI elements are consistent across different screens.

Functionality Testing:

- a. Verify that each function of the app works as expected.
- b. Verify that all user inputs are validated and sanitized.
- c. Verify that all error messages are displayed correctly.

Database Testing:

- a. Verify that data is being stored correctly in the database.
- b. Verify that data can be retrieved from the database correctly.
- c. Verify that the database is updated correctly when data is changed.

Network Testing:

- a. Verify that the app can communicate with the server correctly.
- b. Verify that data is being transferred correctly between the app and the server.
- c. Verify that error messages are displayed correctly when network errors occur.

Performance Testing:

- a. Verify that the app is fast and responsive.
- b. Verify that the app can handle multiple user requests simultaneously.
- c. Verify that the app does not crash or hang during use.

Security Testing:

- a. Verify that the app's authentication system is working correctly.
- b. Verify that user data is encrypted correctly.
- c. Verify that user data is not accessible to unauthorized parties.



Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



5.4 Test Case:

1) Test case For Admin Login Page:

Project Name: Skinnsi

Prepared Date: 20/07/23

Module Name: Login

Project Code: - SK

Prepared By: -Vishal Tompe

Reviewed Date: - 16/03/23

Reviewed By: - Ms. Nikita Tuli

Total no of test Cases: -02

Total no of test Cases Passed: -02

Total no of test Cases failed: -00

Total no of test Cases executed: -02

Total no of test Cases pending: -00

Test Case Id	Test Case Procedure	Input data	Expected Output	Actual Output	Test Status
SK-Login-01	Checking functionality if user enters valid details	1) Enter valid mobile number 2) Enter valid OTP 3) Click Continue button	Current webpage should be displayed with user logged in	Current webpage is displayed with user logged in	Pass
SK-Login-02	Checking functionality if user enters invalid details	1) Enter valid mobile number 2) Enter invalid OTP 3) Click Continue button	Invalid OTP error should be displayed	Invalid OTP error is displayed	Pass



Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



Test Case ID	Test Case Description	Test Steps	Expected Result
TC001	User Registration	1. Navigate to the registration page. 2. Enter valid user details (username, email, password). 3. Click on the "Register" button.	New user registration is successful, and the user is redirected to the login page. User details are stored in the database.
TC002	Invalid Registration Data	1. Navigate to the registration page. 2. Enter invalid or missing user details. 3. Click on the "Register" button.	User registration fails, and appropriate error messages are displayed for the invalid or missing data. User details are not stored in the database.
TC003	User Login	1. Navigate to the login page. 2. Enter valid login credentials (username, password). 3. Click on the "Login" button.	User login is successful, and the user is redirected to the home page or their account dashboard.
TC004	Invalid Login Credentials	1. Navigate to the login page. 2. Enter incorrect login credentials (username, password). 3. Click on the "Login" button.	User login fails, and an appropriate error message is displayed indicating invalid credentials.
TC005	Add Product to Cart	1. Browse to a product page. 2. Click on the "Add to Cart" button. 3. View the cart page.	The selected product is successfully added to the user's cart, and the cart page displays the added product.


Director
 PSD Shastri Educational Foundation's
 ASMA Institute of Management



Test Case ID	Test Case Description	Test Steps	Expected Result
TC006	Remove Product from Cart	1. View the cart page. 2. Click on the "Remove" button for a product. 3. Verify the updated cart contents.	The selected product is removed from the user's cart, and the cart page reflects the updated contents without the removed product.
TC007	Place Order	1. View the cart page with products added. 2. Click on the "Checkout" button. 3. Enter shipping and payment details. 4. Confirm the order.	An order is successfully placed, and the user receives an order confirmation. The order details are stored in the database.
TC008	Search for Product	1. Enter a search keyword in the search bar. 2. Click on the search button or press Enter. 3. Verify the search results page.	The search results page displays relevant products matching the search keyword.
TC009	View Product Details	1. Browse to a product page. 2. Verify the displayed product details (name, description, price, etc.).	The product page correctly displays the details of the selected product.
TC010	Filter Products	1. Select specific filters (brand, price range, etc.) on the product listing page. 2. Verify the filtered product results.	The product listing page displays only the products that match the selected filters.



Director



Chapter 6

Limitations of Proposed System

These limitations are based on common challenges encountered in software development and system design. Keep in mind that the actual limitations of the "skinnis project" may differ, and you should refer to the project documentation or official sources for accurate and up-to-date information. Here are some common limitations:

1. **Technical Limitations:** These relate to the technology used in the proposed system, such as compatibility issues, hardware requirements, or software dependencies that might restrict its deployment or usability on certain platforms.
2. **Scalability:** The proposed system might work well for small-scale scenarios, but it could face challenges when it comes to handling larger datasets or user loads. Scalability issues could lead to performance degradation or system failures under heavy usage.
3. **Security Concerns:** Security is a crucial aspect of any system. The proposed system might have vulnerabilities, making it susceptible to unauthorized access, data breaches, or other cyber-attacks.
4. **Data Privacy:** If the system deals with sensitive user information, there could be privacy concerns related to data handling and storage. Compliance with data protection regulations might pose challenges.
5. **User Experience (UX):** The system might lack a user-friendly interface, resulting in a poor user experience and reduced adoption rates.
6. **Resource Intensive:** The system might require significant computational power, memory, or storage, which could make it unsuitable for deployment on certain environments or devices.
7. **Integration Challenges:** Integrating the proposed system with existing infrastructure or third-party services might be difficult, leading to compatibility issues.
8. **Maintenance and Support:** The proposed system might require regular updates, bug fixes, and ongoing support. If these aspects are not adequately addressed, the system may become obsolete or unusable over time.
9. **Cost and Budget:** The implementation and maintenance costs of the system could be higher than anticipated, making it financially unsustainable.
10. **Time Constraints:** Developing a complex system within a limited timeframe might lead to compromises in functionality, quality, or testing.

To address these limitations, it is essential for the project team to conduct thorough planning, testing, and analysis during the development phase and seek feedback from potential users to identify areas for improvement. Regular evaluation and iteration are critical to refining the system and mitigating its limitations.


Director

62



Chapter 7

Proposed Enhancements

As technology and user expectations evolve, there are several future enhancements that can be considered for an online skin medicine hub. Here are some potential improvements and features to enhance the platform:

1. **Augmented Reality (AR) Integration:** Implement AR technology to allow users to virtually try out skincare products. Users can use their smartphone cameras or webcams to see how a product would look or feel on their skin before making a purchase.
2. **Artificial Intelligence (AI) Chatbots:** Integrate AI-powered chatbots to provide instant customer support and assistance. Chatbots can answer common inquiries, provide product recommendations, and guide users through the purchasing process, enhancing the overall user experience.
3. **Skin Analysis Tools:** Develop and integrate tools that analyze users' skin conditions through uploaded photos or a webcam. These tools can provide personalized product recommendations based on the analysis, helping users choose the most suitable skin medicines for their specific needs.
4. **Subscription Services:** Offer subscription-based models where users can sign up for regular deliveries of their preferred skin medicines. This provides convenience for users and ensures a continuous supply of their skincare products.
5. **Mobile Application:** Develop a dedicated mobile application for the online skin medicine hub, providing users with a seamless and optimized experience on their smartphones or tablets. The app can include features such as push notifications, personalized recommendations, and easy access to account information.
6. **Rewards and Loyalty Program:** Implement a rewards program to incentivize customer loyalty. Users can earn points for purchases, referrals, and leaving reviews, which can be redeemed for discounts, exclusive offers, or free products.
7. **Social Media Integration:** Integrate social media features, allowing users to share their experiences, product reviews, and skincare routines with their social network. This can help create a community within the platform and increase brand visibility.
8. **Virtual Skincare Events:** Organize virtual skincare events, such as webinars or live Q&A sessions with dermatologists or skincare experts. These events can provide educational content, skincare tips, and opportunities for users to interact and learn from industry professionals.
9. **Gamification Elements:** Incorporate gamification elements into the platform to engage users and make the skincare journey more enjoyable. This can include challenges, quizzes, or achievement badges that users can earn by actively participating and achieving skincare goals.
10. **Sustainability Initiatives:** Highlight and promote environmentally friendly practices by partnering with sustainable skincare brands or offering eco-friendly packaging options. Educate users about the importance of sustainable skincare and provide resources on eco-conscious choices.



Chapter 8

Conclusion

In conclusion, an online skin medicine hub offers numerous advantages for individuals seeking convenient access to quality skin medicines and expert skincare advice. By harnessing the power of technology and the internet, it bridges the gap between users and the skincare products they need.

Through the comprehensive features and functionalities provided by the online skin medicine hub, users can browse through a diverse range of products, obtain personalized recommendations, access educational resources, and even schedule online consultations with dermatologists or skincare experts. The platform enhances accessibility, convenience, and user experience, ultimately empowering individuals to make informed decisions about their skincare routines.

Furthermore, the online skin medicine hub addresses the limitations and challenges of offline selling by overcoming geographical barriers, providing a wider range of products, and ensuring user privacy and confidentiality. It also fosters a sense of community by allowing users to share their experiences, provide feedback, and learn from one another.

Looking towards the future, potential enhancements such as augmented reality integration, AI chatbots, and mobile applications can further enhance the platform's capabilities and provide a more immersive and personalized experience for users. Sustainability initiatives, loyalty programs, and virtual skincare events can also contribute to a holistic and engaging user journey.

Overall, an online skin medicine hub holds great potential in revolutionizing the way individuals' access and engage with skincare products and information. By embracing technology and continuously adapting to user needs, it can become an invaluable resource for achieving healthier and radiant skin.



Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



Chapter 9

Bibliography

<https://netmeds.com/>
<https://www.lmg.com/>
www.scribd.com
www.w3school.com
www.htmltutorial.com
www.csstutorial.com
www.caratlane.com
www.stackoverflow.com



Director

PSD Shastri Educational Foundation's
ASMA Institute of Management



Chapter 10

User Manual

[Your Online Skin Medicine Hub]

User Manual

Welcome to [Your Online Skin Medicine Hub]! This user manual provides an overview of the features and functionalities of our platform to help you navigate and make the most out of your experience.

1. Account Creation and Login:

- To begin, visit our website [URL] and click on the "Sign Up" or "Register" button to create your account. Provide the required information, such as your name, email address, and password.
- Once registered, you can log in using your credentials on the login page.

2. Browsing and Searching:

- Explore our extensive product catalog by navigating through the different categories or using the search bar to find specific skin medicines.
- Refine your search results using filters such as brand, skin concern, ingredient, or product type to narrow down your options.

3. Product Details and Selection:

- Click on a product to view its detailed information, including ingredients, usage instructions, precautions, and customer reviews.
- Add the desired skin medicines to your shopping cart by clicking the "Add to Cart" button. You can adjust quantities or remove items as needed.

4. Shopping Cart and Checkout:

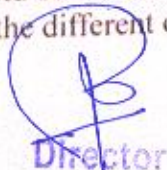
- Access your shopping cart by clicking on the cart icon at the top of the page. Review the items in your cart, make any necessary changes, and proceed to checkout.
- During the checkout process, provide your shipping address and select a preferred payment method.
- Follow the prompts to complete the payment securely. You will receive an order confirmation via email.

5. Online Consultation:

- If you require personalized advice, you can schedule an online consultation with our licensed dermatologists or skincare experts.
- Visit the "Consultation" or "Expert Advice" section of the website and follow the instructions to book an appointment.
- During the consultation, discuss your skin concerns and receive expert recommendations for suitable skin medicines and skincare routines.

6. Educational Resources:

- Explore our educational resources section to access informative articles, blogs, videos, and guides related to skincare and dermatology.
- Browse through the different categories or use the search feature to find specific topics of interest.


Director

PGD Shastri Educational Foundation's
ASMA Institute of Management



7. User Profile and Account Management:

- Manage your profile and account settings by accessing the "My Account" or "Profile" section. Update your personal information, manage addresses, and view your order history.
- Track the status of your orders, including estimated delivery dates, through the order tracking feature.

8. Customer Support:

- If you have any inquiries, concerns, or technical issues, our customer support team is here to assist you.
- Contact us through the provided channels, such as live chat, email, or phone, to reach our support representatives.

9. Reviews and Feedback:

- Share your feedback and experiences with our products and services by submitting reviews and ratings on the respective product pages.
- We value your input and appreciate your contributions to our community.

10. Privacy and Security:

- Rest assured that we prioritize the privacy and security of your personal information. We employ industry-standard measures to protect your data and ensure secure transactions.

We hope this user manual has provided a comprehensive understanding of how to use our online skin medicine hub. If you have any further questions or require additional assistance, please don't hesitate to contact our customer support team.

Thank you for choosing [Your Online Skin Medicine Hub], and we wish you a positive and satisfying experience on our platform!



Director

PSD Shastri Educational Foundation's
ASMA Institute of Management

