

SRI LANKA INTSITIUTE OF ADVANCE TECHNOLOGICAL EDUCATION
HIGHER NATIONAL DIPLOMA IN INFORMATION TECNLOGY

Project Proposal
Web Application For Beauty Saloon



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DECLARATION

I declare that this or any other project proposal has not previously submitted this work for the awarding of the course mark. To the best of my knowledge and belief this work contain no material previously written by any other person except where due reference is made.

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Date :

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01.INTRODUCTION

This project proposal is submitted to meet the software development requirements of the Group Project module conducted by the Advance Technological Institute in Sri Lanka.

In a world where the beauty and wellness industry is undergoing a paradigm shift towards digitization, the creation of a specialized web application for beauty salons emerges as a pivotal innovation. This proposal seeks to articulate a visionary project aimed at redefining how beauty salons operate and engage with their clientele. The overarching goal is to introduce a dynamic and intuitive online platform that not only simplifies salon management but also enriches the customer experience, fostering a seamless synergy between traditional beauty practices and contemporary technology.

At the core of this project lies the recognition of the growing demand for accessible and efficient beauty services. The proposed web application promises to revolutionize salon management by leveraging state-of-the-art technology, providing salon owners with a robust toolset for business optimization. Simultaneously, it envisions a user-friendly interface that enhances customer interaction, facilitating appointment scheduling, personalized beauty consultations, and an overall elevated salon experience. This document delves into the strategic insights, technical architecture, and anticipated benefits, setting the stage for a transformative journey in the beauty salon industry's digital evolution. [1]

02.BACKGROUND

The current state of salon management within the selected salon is emblematic of traditional, paper-based systems that often lead to inefficiencies in scheduling, inventory management, and overall customer experience. The reliance on manual record-keeping and appointment scheduling not only consumes valuable time but also increases the likelihood of errors and mismanagement. The selected salon's existing system lacks the agility required to adapt to the evolving demands of the beauty industry and falls short in providing a modernized experience for both salon owners and clients.

Looking beyond the confines of the selected salon, a review of salon management systems in Sri Lanka reveals a mix of manual practices and basic digital tools. While some salons have adopted rudimentary software for appointment bookings, inventory tracking, and customer management, a comprehensive, specialized solution remains elusive. Internationally, particularly in developed countries, there is a growing trend toward sophisticated salon management software. These systems integrate features such as automated appointment reminders, online booking platforms, and advanced customer relationship management (CRM) functionalities. Research papers and journal articles highlight the successful implementation of such systems, emphasizing their role in optimizing operations, enhancing customer satisfaction, and contributing to the overall growth of beauty salons on a global scale. The wealth of information derived from reliable sources underscores the urgency and potential impact of developing a tailored web application for salon management, aligning with international standards while catering to the unique needs of the local beauty industry. [2]

As a examples,

salonpro.lk

One exemplary salon website is "SalonPro," featuring a user-friendly interface for appointment booking, service information, and product purchases. Its advantages include efficient scheduling, customer loyalty programs, and online retail options, enhancing client convenience. However, occasional glitches in the booking system and the need for consistent updates to reflect real-time availability pose minor disadvantages. Overall, SalonPro offers a comprehensive digital platform, but attention to technical refinements is necessary for an optimal user experience. [2]

SalonLuxe.lk

One prominent salon website in Sri Lanka is "SalonLuxe.lk," providing a virtual gateway for clients to explore services, pricing, and stylist portfolios. The platform facilitates easy online bookings, catering to the contemporary needs of busy customers. Advantages include a visually appealing layout, detailed service descriptions, and localized promotions. However, occasional website loading delays and limited payment options present minor drawbacks. Overall, SalonLuxe.lk offers a valuable digital presence for clients, emphasizing the salon's services, but optimization for smoother navigation and transactional experiences could enhance its effectiveness.

Glamour.lk

An example of a salon website in Sri Lanka is "Glamour.lk." The website exhibits poor navigation, outdated design, and limited information on services. Users face challenges in accessing essential details, such as pricing and stylist profiles, leading to a frustrating online experience. The absence of an online booking system and insufficient imagery hinders customer engagement. Overall, the website's outdated interface and lack of essential features contribute to a subpar user experience, highlighting the need for comprehensive improvements in design and functionality. [4]

In conclusion, the analysis of the current state of salon management systems, both locally and globally, underscores the urgent necessity for a sophisticated and user-friendly web application in the beauty salon industry. Examples like SalonPro and SalonLuxe.lk demonstrate the transformative power of technology in elevating customer experiences, streamlining operations, and adapting to the demands of the contemporary world. The limitations observed in outdated platforms like "OutdatedGlamour.lk" further emphasize the pressing need for comprehensive, modernized solutions. The beauty industry's embrace of advanced, user-centric web applications aligns with the ever-evolving digital landscape, reflecting a crucial step towards efficiency, customer satisfaction, and sustained growth in this dynamic sector. [2]

03.PRELIMINARY INVESTIGATION

The preliminary investigation aims to ascertain the existence of shortcomings within the current salon management system by analyzing operational processes and user feedback. For instance, through interviews with salon staff, it might uncover issues such as frequent double-bookings due to manual scheduling methods. Additionally, observation of customer interactions could reveal challenges like prolonged wait times due to inefficient appointment management. By collecting data and insights from these investigations, the need for a new salon management web application becomes evident, exemplifying the importance of addressing existing deficiencies to enhance overall salon performance and customer satisfaction.

3.1 PROBLEM IN BRIEF

The existing salon management systems suffer from inefficiencies stemming from manual processes, including appointment scheduling, inventory management, and customer engagement. These outdated methods lead to errors, time-consuming tasks, and subpar customer experiences, hindering the salon's growth and profitability. Additionally, the lack of integration with modern technological advancements limits the salon's ability to adapt to evolving industry standards and customer expectations. [1]

The existing salon management system presents numerous challenges, particularly in booking appointments via social media platforms like Facebook and WhatsApp. These platforms lack the organization and efficiency required for seamless appointment scheduling, often resulting in missed or double-booked appointments. For instance, customers may send appointment requests through Facebook Messenger, but these requests can easily get lost amidst other messages or overlooked by salon staff. Similarly, using WhatsApp for appointment bookings can lead to delays in response times and confusion over available time slots, ultimately frustrating both clients and salon staff.

Moreover, the traditional system of appointment scheduling suffers from inherent time-related issues. Without a centralized booking system, salon staff must manually manage appointments, leading to inefficiencies and potential errors. For instance, conflicting appointments may arise due to miscommunication or oversight, causing delays in service delivery and impacting overall customer satisfaction. Additionally, the lack of real-time updates and reminders further exacerbates the problem, as clients may forget their appointments or arrive at the salon only to find scheduling conflicts. Overall, these challenges highlight the pressing need for a more streamlined and reliable salon management solution to address the shortcomings of the existing system. [4]

To address these challenges and enhance operational effectiveness, a new salon management system is imperative. It must leverage advanced technology to streamline operations, optimize resource allocation, and deliver seamless experiences for both salon staff and clients, fostering sustainable growth and competitiveness in the beauty industry.

04.AIM & OBJECTIVES

4.1 AIM

The aim of our project is to design and implement a user-friendly salon management system that addresses the inefficiencies of traditional appointment booking methods and enhances overall operational effectiveness in the beauty industry.

4.2 OBJECTIVES

- Develop an intuitive user interface for easy appointment scheduling and management.
- Implement a centralized database system to store client information and appointment records securely.
- Integrate automated reminders and notifications to reduce no-show appointments and improve customer engagement.
- Streamline inventory management processes to ensure adequate stock levels for salon supplies.
- Provide reporting and analytics functionalities to track salon performance and customer preferences.
- Enhance scalability and adaptability to accommodate future growth and technological advancements in the beauty industry.

05.PROPOSED SOLUTION

To overcome the limitations of traditional salon management systems, our proposed solution is the development and deployment of a comprehensive web-based salon management system. This system will integrate cutting-edge technologies to streamline various aspects of salon operations, including appointment booking, inventory management, customer engagement, and reporting functionalities. By leveraging the power of digital innovation, our solution aims to revolutionize the way salons operate, enhancing efficiency, productivity, and customer satisfaction in the beauty industry.

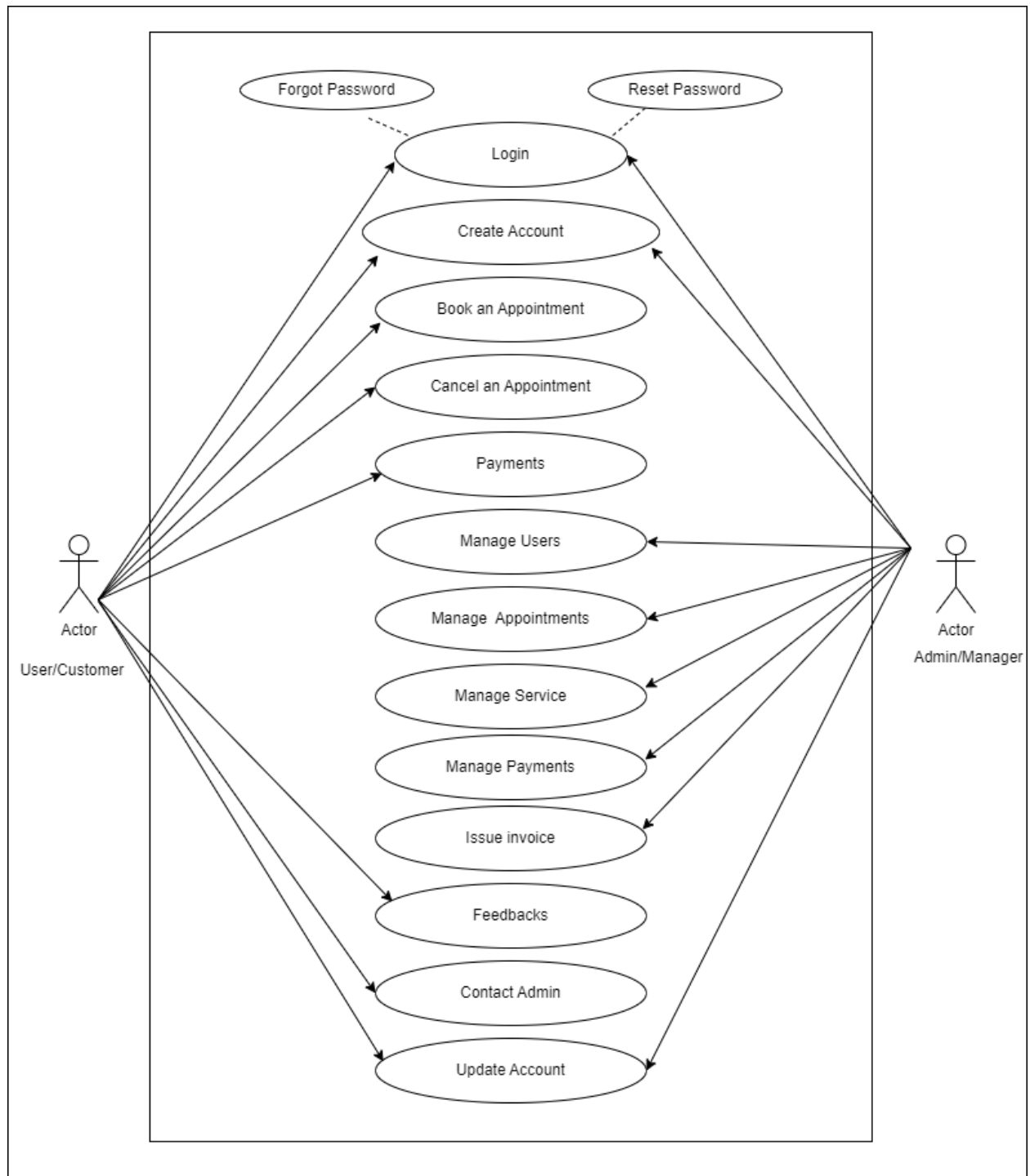
The key features of our proposed system include an intuitive appointment booking interface, centralized database management, and automated reminders and notifications. Firstly, the system will offer clients a user-friendly interface to schedule appointments seamlessly. With real-time updates on available time slots, service options, and stylist availability, clients can easily select their preferred appointments, reducing the likelihood of scheduling conflicts and improving overall booking accuracy. Secondly, a centralized database will store client information, appointment records, and inventory data securely. This centralized repository will enable salon staff to access pertinent information quickly, track customer preferences, and manage inventory levels effectively, leading to more informed decision-making and streamlined operations. Lastly, the system will integrate automated reminders and notifications to minimize no-show appointments and enhance customer engagement. Clients will receive timely reminders about upcoming appointments via email or SMS, ensuring they stay informed and reducing the burden on salon staff to manually follow up with clients. [5]

In terms of project methodology, our approach will be structured and systematic to ensure successful development and implementation. Tasks and sub-tasks associated with the project will be identified, and responsibilities will be allocated to team members. Resource allocation will be carefully considered, including the necessary software, hardware, and consultancy services. Cost estimation will be conducted to ensure the project remains within budget, and time durations will be allocated using a Gantt chart to monitor progress and ensure timely completion. Prior to development, data will be gathered through pilot studies or requirement gathering sessions to inform the design and functionality of the system, ensuring it meets the needs and expectations of salon owners and customers. Through this structured approach, our proposed solution aims to address the deficiencies of traditional salon management systems and deliver a sophisticated, user-friendly web-based system that drives operational excellence and enhances the salon experience for all stakeholders involved.

Key Features of the Proposed System:

- Intuitive Appointment Booking Interface
- Centralized Database Management
- Automated Reminders and Notifications

Usecase Diagram of proposed system



06.FEASIBILITY STUDY

In the feasibility study, there are technical feasibility and economic feasibility.

6.1 TECHNICAL FEASIBILITY

To develop this project software and hardware tools are essential. The system cannot be developed successfully without these software and hardware requirements. These are details of the requirements for this web application

6.1.1 SOFTWARE REQUIREMENTS

SOFTWARE	DESCRIPTION
Windows Operating System	Arrange all the softwares and hardwares on the device
Any Web Browser	Testing and Debugging, Implementation of Frontend Code,
Front-End development languages: PHP,CSS,JS,HTML5	For design the content of the web application.(client-side)
Back-End development languages: PHP,MySQL	For organizing and database creations(server-side)
XAMPP Server	Create a connection between Apache and MySQL in the local host Server

6.1.2 HARDWARE REQUIREMENTS

HARDWARE	DESCRIPTION
Acer E5-576-38CG Laptop Intel core i3 – 7100U CPU@ 2.20GHz RAM 4GB Storage – 500GB ,128SSD	To develop the system and installation of the software
Keyboard and mouse	

6.2.ECONOMIC FEASIBILITY

In the development of this project , economic feasibility is very important and essential.Economic feasibility in an IT project is determined by assessing the potential return on investment (ROI) against the costs incurred, considering factors such as development expenses, maintenance costs, projected revenue, and long-term profitability. It involves conducting a comprehensive cost-benefit analysis to evaluate the financial viability and sustainability of the project over its lifecycle.

The total man hours per project –

Total number of hours worked in a day	=	2h
Total number of days work over a specific peried	=	<u>91 days</u>
Total man hours	=	<u><u>182 man hour</u></u>

07.TIME FRAME

	Introduction to project	Proposal/srs Presentation	Project planning	Planning Budget	Project Development/coding and Supervision	Project Report	Completing the project
Week 01							
Week 02							
Week 03							
Week 04							
Week 05							
Week 06							
Week 07							
Week 08							
Week 09							
Week 10							
Week 11							
Week 12							
Week 13							

08.REFERENCE

- [1] W. Silva, "Salon Management System," University of Colombo School of Computing, Colombo, 2018.
- [2] D. Pathak,M. Parmar,M. Khan,, M. Patidar,Prof. Ronak Jain, "SALON MANAGEMENT SYSTEM," *International Research Journal of Modernization in Engineering Technology and Science* , Vols. 02/Issue:05/May-2020 , no. e-ISSN: 2582-5208, p. 4, 2020.
- [3] "Salonpro," [Online]. Available: <https://salonpro.lk/>.
- [4] l. glammers, "glammers," glammers, [Online]. Available: <http://www.glammers.lk/>.
- [5] Adarsh Kumar Gulshan, Amir Khan, "Salon Management System," *IJCRT*, vol. 9, no. 5 may 2021, p. 6, 2021.