

Sri Lanka Institute of Advanced Technological Education



Higher National Diploma in Information Technology

Advanced Technological Institute, Ratnapura

Group project proposal

Restaurant Web Site

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EXECUTIVE SUMMARY

This proposal outlines a group project to develop a modern, user-friendly, and fully functional website for HELA RASA. The project aims to enhance the restaurant's online presence, streamline reservation and ordering processes, and improve customer engagement. The website will feature an intuitive design, responsive layout, and essential functionalities such as an interactive menu, offline reservation system, and contact information.

INTRODUCTION

With the increasing reliance on digital solutions, a strong online presence is vital for businesses in the hospitality industry. This project aims to build a professional website for HELA RASA to attract new customers, facilitate offline orders and reservations, hotel POS system development, and showcase the restaurant's unique offerings.

SCOPE OF WORK

The project scope includes: Design & Development: Creation of a responsive and visually appealing website.

Core Features:

- Interactive menu with pricing and images.
- Hotel POS System
- Contact page with a location map and contact form.
- Gallery showcasing restaurant ambiance and dishes.
- Integration with social media channels.

METHODOLOGY

The project will follow the Agile methodology to ensure flexibility and continuous improvement. Key phases include:

1. Planning: Define requirements, allocate tasks, and set milestones.
2. Design: Develop wireframes and design prototypes for approval.
3. Development: Code the website and integrate required features.
4. Testing: Conduct usability, functionality, and security tests.
5. Deployment: Launch the website and monitor for any issues.
6. Maintenance: Provide ongoing support and updates if required.

TIMELINE

Name	Start	End	Duration
Project proposal	2025/02/24	2025/02/31	1 week
Planning	2025/03/01	2025/03/07	1 week
Design	2025/03/08	2025/03/29	3 week
Development	2025/03/30	2025/04/28	4 week
Testing	2025/04/29	2025/05/05	1 week
Error handling	2025/05/06	2025/05/13	1 week
Launch	2025/05/14	2025/05/22	1 week

BUDGET

Item	Cost
Printer	Rs.14,500
HP Full Set PC (include monitor and keyboard)	Rs.35,000
Hosting cost	Rs.6,000

EXPECTED RESULTS/OUTCOMES

- A professional and user-friendly website that increases the restaurant's online visibility.
- Streamlined reservation and order processes, improving customer convenience.
- Enhanced customer engagement through integrated social media and interactive features.
- Increased sales and customer satisfaction.

RISK ASSESSMENT

1. Technical Risks

System Downtime : Server or software issues could disrupt operations.

Mitigation: Use reliable hosting with backup systems and monitor uptime regularly.

2.Operational Risks

Staff Training : Employees may struggle with the new system.

Mitigation : Provide comprehensive training and ongoing support

Inventory Management : Errors in inventory tracking could occur.

Mitigation : Ensure real-time sync between POS and inventory systems.

3. Customer Experience Risks

Poor UI Design: A difficult user interface could frustrate customers.

Mitigation: Focus on a simple and intuitive design, and test with users.

CONCLUSION

In conclusion, the development of a Restaurant Website integrated with a POS (Point of Sale) System provides a comprehensive solution that enhances both the customer experience and restaurant operations. By offering an intuitive, easy-to-navigate website, the restaurant can engage customers effectively, allowing them to browse the menu, place online orders, and make reservations from the comfort of their homes. The seamless integration of the POS system ensures that sales data are managed efficiently, with real-time synchronization of orders.

REFERENCES

<https://pos.toasttab.com/blog>

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