

**Sri Lanka Institute of Advance Technological Education
(SLIAT)
Tangalle**

GROUP PROJECT Proposal

2022

Restaurant Management System



**Higher National Diploma in Information Technology
(HNDIT)-2022**

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Project Proposal

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Project Details

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Project Code : HNDIT2062

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Introduction

A restaurant management system developed using C# and ASP.NET is a software solution designed to streamline various operations within a restaurant, including ordering, inventory management, table reservations, customer management, billing, and reporting. By leveraging C# for backend logic and ASP.NET for web-based interfaces, this system provides a user-friendly and efficient platform for restaurant staff to manage daily tasks and improve overall productivity.

Aims and objectives

Aims

- This is expected to be introduced as a solution to efficiently maintain the operation and management of the restaurant.
- The main aim is to provide better communication between customers and restaurant.
- The application will reduce all the manual processes.

Objectives

- Aiding in strategic planning and decision making.
- Designing an intuitive user interface accessible to staff and management minimizing training requirements and maximizing usability.
- Customer satisfaction is increased by providing prompt service.
- Improves system to protect data.

Scope of work

- User interface design.
- Integration with the restaurant's existing system.
- Data migration from the current paper based system.
- Training for restaurant staff.
- Ongoing support and maintenance.
- The project include advanced database management features.

Methodology

- Needs Analysis: Understanding the restaurant's needs, including ordering, inventory management, billing, customer management, etc.
- System Design: Designing the system including database structure, user interfaces and system modules
- Frontend Development: Development of user interfaces for various functions such as order placement, menu management and customer interaction.
- BACK-END DEVELOPMENT: To handle business processes, store data and make payments
- Testing: Conduct extensive testing ensure system functions as expected, including unit testing, integration testing and user acceptance testing.
- Deployment: Delivering products to servers ensuring scalability, reliability and security
- Maintenance and Support: Provide ongoing maintenance and support to resolve issues, implement updates and improve features based on user feedback and changing needs.

Benefits

- Reduction in manual paperwork and errors.
- Increased security and data integrity.
- A restaurant management system for efficient order management.
- Accurate sales reports are available.
- Improved customer service.
- Automated billing, improved staff scheduling and effective table management.

Weakness

- A confusing or incomprehensible user interface can challenge staff to use the system efficiently, causing errors and difficulties to use.
- Insufficient staff training leading to insufficiencies.
- Errors in data entry into the data system occur by providing inaccurate customer data.

Risk

- Integration challenges with existing system.
- Customer dissatisfaction with new processes.
- Budget overruns during implementation.
- Low user acceptances.

Conclusion

A restaurant management system is a critical tool for streamlining operations, improving efficiency and enhancing the customer experience. Implementing a strong restaurant management system can significantly benefit a restaurant's overall performance and industry competitiveness.

Time Line

Task	week											
	1	2	3	4	5	6	7	8	9	10	11	12
Study the current system												
Identify the problem												
Create and submit proposal												
System design												
System developing												
Error handling												
System testing												
System finalization												
Project handover												

Reference

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Bibliography

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