



NATIONAL UNIVERSITY OF MODERN LANGUAGES

ONLINE RESTAURANT ORDERING & KIOSK SYSTEM

(Advance Programming)

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----(Project Report)----

Youtube Link

<https://youtu.be/1ojyoMzjAmQ?si=4yoi1LTk-9AaDRVr>

CHAPTER 1: INTRODUCTION

Problem Statement:

Manual ordering causes errors, delays, and poor data handling.

Objectives:

- Automate ordering
- Reduce errors
- Save time
- Improve service

Project Scope:

The system allows customers to order digitally. Payment and delivery are not included.

Methodology:

Database first approach is used.

CHAPTER 2: LITERATURE REVIEW

Existing systems are costly and complex. This project is simple and affordable. Many restaurants already use online ordering systems such as Foodpanda, McDonald's self-service kiosks, and POS systems. These systems allow customers to place orders digitally. However, most of them are expensive and complex for small restaurants. Some systems also lack customization. This project provides a simple, low-cost, and easy-to-use solution suitable for small-scale restaurants.

CHAPTER 3: SYSTEM DESIGN

Includes Use Case, Sequence Diagram, and ERD.

- **Use Case Diagram**

The use case diagram shows interactions between users and the system. Customers can view menu and place orders, while staff can manage orders and update menus.

- **Sequence Diagram**

The sequence diagram shows the step-by-step flow of actions, starting from menu selection to order confirmation.

- **ERD (Entity Relationship Diagram)**

The ERD shows database tables such as Users, Orders, Menu, and Order Details, along with their relationships.

CHAPTER 4: DATABASE & FRONTEND

Database tables include Users, Menu, Orders.

Frontend includes menu and admin panels.

- **Database Design**

The database includes tables for:

- Users
- Menu Items
- Orders
- Order Details

Each table contains primary keys and relevant fields to store accurate data.

- **Frontend Overview**

The frontend includes:

- Home Page
- Menu Page
- Order Form
- Admin Panel

CHAPTER 5: RESULTS

System works efficiently with proper order handling. The system successfully displays menus and allows users to place orders.

Screenshots show the home page, menu page, and order confirmation screen. Each screen works smoothly and fulfills its purpose.

CHAPTER 6: CONCLUSION

The project achieved automation and efficiency.

CHAPTER 7: FUTURE WORK

- Online payment integration
- Order tracking feature
- Mobile application version
- Customer feedback system

➤ REFERENCES

- Restaurant Management System Articles
- YouTube Tutorials on Web Development
- Database Design Books
- Online Learning Platforms