

Web Development Project Proposal

1. Project Title

Restaurant Online Ordering System

2. Team Information

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3. Project Overview

This project aims to develop an online restaurant ordering system where customers can browse the menu, place orders, and make payments through a user-friendly website. The system will also allow restaurant staff to manage menu items, track orders, and update order status efficiently. It eliminates the need for manual order-taking and speeds up service delivery.

4. Problem Statement

Currently, many restaurants take customer orders manually, which can lead to slow service, errors, and miscommunication. During busy hours, managing multiple orders becomes difficult, leading to customer dissatisfaction. This project seeks to solve these problems by providing a digital ordering platform that automates and simplifies the process.

5. Project Objectives

- Allow customers to view menu items and place orders online.
- Enable staff to manage menu items, categories, and prices.
- Store all orders and customer data in a secure MySQL database.
- Provide an admin dashboard to view order history and update order status.
- Reduce order errors and improve customer satisfaction through faster service.

6. Functional Requirements

Feature	Description
User Registration & Login	Customers and admins can register and log in securely.
Menu Display	Displays available food items with images, prices, and categories.
Add to Cart	Customers can select and review their order before checkout.
Order Management	Admins can view, confirm, and update order statuses.
Database Integration	MySQL stores all user, menu, and order information.
Search Function	Customers can search for specific menu items.

7. Non-Functional Requirements

Requirement	Description
Usability	Simple and clean interface with easy navigation.
Performance	Pages should load within 2 seconds on XAMPP local server.
Security	Password encryption and validation for all users.
Reliability	Data should be stored securely and retrieved accurately.
Scalability	System can be expanded to include mobile version or online payment.

8. Target Users

- Restaurant customers
- Restaurant administrators/managers
- Waiters and kitchen staff (for order management)

9. Technology Stack

Category	Tools
Frontend	HTML, CSS, JavaScript
Backend	PHP
Database	MySQL
Server	XAMPP (Apache Server)
Platform	Localhost environment

10. System Architecture (Simple Diagram)

Customer (Browser) → Frontend (HTML/CSS/JS) → Backend (PHP) → Database (MySQL)
Admin Panel ←→ Database (MySQL)

11. Expected Deliverables

- Fully functional restaurant ordering website
- PHP source code and MySQL database file
- Project documentation (proposal, design, and implementation details)
- PowerPoint presentation for project defense/demo

12. References

- <https://www.w3schools.com/php/>
- <https://www.tutorialrepublic.com/php-tutorial/>
- <https://www.geeksforgeeks.org/php-and-mysql-projects/>
- YouTube: “PHP MySQL Online Food Ordering System Tutorial”