

1. Introduction

This project aims to develop a web-based platform using PHP and MySQL that allows Restaurant Managers to manage reservation schedules and dining experiences effectively. The platform enables managers to perform the following tasks:

- Add, modify, or cancel reservations.
- Track and manage customer dining preferences.
- Automatically add new customers during the reservation process if they do not exist in the database.
- Ensure integrated customer data to efficiently track customer interactions, reservations, and preferences.

This report outlines the system's architecture, code functionality, database structure, and the implementation process.

2. System Overview

2.1 Features of the Platform

1. Customer Management:

- Before making a reservation, the system checks whether a customer already exists in the database.
- If the customer does not exist, they are added automatically during the reservation process.
- New customers can also be added directly to the system.

2. Reservation Management:

- Restaurant Managers can add, modify, or cancel reservations.
- The platform tracks reservation details, including reservation time, number of guests, and any special requests.

3. Dining Preferences:

- The platform stores dining preferences for regular customers, such as favorite tables and dietary restrictions.
- Managers can view and update customer dining preferences to enhance customer experience.