Group4

**Project Proposal:** Restaurant Reservation System

**Objective:** The goal of this project is to design and implement a comprehensive database system that manages a restaurant's daily operations, including customer reservations, order tracking, and staff assignments.

**Project Overview:** This project will develop a functional database system that caters to the needs of a modern restaurant. The database will store and manage key data elements such as customer profiles, reservations, table assignments, order details, and staff information. The proposed system will streamline the reservation process, improve table management efficiency, and provide insights into customer preferences through order history and feedback.

## Key Features:

Customer Management:

Store customer profiles with personal details such as name, contact information, and loyalty points.

Track customer order history and feedback for personalized services.

Reservation System:

Enable customers to reserve tables based on availability, date, and time.

Manage table assignments and track the number of guests for each reservation.

Order Tracking:

Record and manage customer orders linked to their reservations.

Track the total bill amount and provide detailed order history.

Staff Management:

Maintain staff records including name, position, and work schedules.

Assign staff to reservations based on availability and table assignments.

Feedback and Loyalty Program:

Allow customers to provide feedback after their dining experience.

Implement a loyalty points system for frequent customers to enhance customer retention.

## Technology Stack:

Frontend: HTML, and CSS for the user interface.

Backend: Python for handling server-side logic and API requests.

Database: MySQL for managing and storing relational data. / Python import SQL?

Expected Deliverables:

A fully functional database system that handles restaurant reservations, customer feedback, and order tracking.

A web-based user interface for customers to interact with the reservation and feedback system.

A final report detailing the database design, implementation process, and future recommendations for system enhancements.