

# DMDD\_Group 2

## Restaurant Management System

[https://github.com/madhura-adadande/DMDD\\_Group2\\_Final\\_Project](https://github.com/madhura-adadande/DMDD_Group2_Final_Project)

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### Mission Statement

Our mission is to develop a highly efficient, scalable, and secure database tailored for a restaurant management system. This system aims to streamline daily operations, elevate customer satisfaction, and maximize resource efficiency by seamlessly managing reservations, orders, staff schedules, inventory, and customer feedback.

### Mission Objectives

- Design a database capable of efficiently handling reservations, order processing, menu management, staff scheduling, and inventory tracking to ensure seamless operations.
- Implement features that allow tracking customer reservations, orders, and feedback to deliver personalized dining experiences, improve service quality, and foster customer loyalty.
- Generate comprehensive reports on sales, staff performance, and customer preferences, empowering restaurant managers to make strategic and data-driven decisions.
- Uphold the highest standards of data security and integrity to protect sensitive information and maintain trust.

### Proposed Entities and Attributes

- **Restaurant**  
Attributes: RestaurantID, Name, Location, ContactNumber, Manager, Capacity
- **Menu**  
Attributes: MenuID, RestaurantID, Name, Description, Active Status
- **Dish**  
Attributes: DishID, MenuID, Name, Price, Ingredients, PreparationTime, IsVegetarian, IsAvailable
- **Customer**  
Attributes: CustomerID, FullName, Email, ContactNumber, Address, LoyaltyPoints
- **Reservation**  
Attributes: ReservationID, CustomerID, RestaurantID, ReservationDate, TimeSlot
- **Order**  
Attributes: OrderID, CustomerID, RestaurantID, ReservationID, OrderDate

- **OrderDetails (Associative Entity)**

Attributes: OrderDetailID , OrderID , DishID, Quantity, Subtotal

- **Staff**

Attributes: StaffID , RestaurantID , FullName, Role.

- **Shifts (Associative Entity)**

Attributes: ShiftID, StaffID , ShiftDate, StartTime, EndTime

- **Supplier**

Attributes: SupplierID, Name, ContactPerson, ContactNumber, SuppliesCategory, Address

- **Inventory**

Attributes: InventoryID , RestaurantID , IngredientName, StockLevel, LastRestockedDate, SupplierID

- **Feedback**

Attributes: FeedbackID , CustomerID,, DishID , Rating, Comments, FeedbackDate