

# Rasai Catering Database

20th March 2024

## Overview

Rasai Catering currently uses a booking and enquiry system run via emails directly sent to the owner from the customer. The owner would like the web application to hold bookings and inquiries that can be viewed through the application rather than having details and messages sent directly via email.

## Functional Requirements

1. Data Storage: The database needs to store customer details, inquiries, bookings, and menu items.
2. Data Access: Data should be accessible in a format easily understood by the owner.
3. Data Comprehension: Customer entries should be connected to inquiries and bookings to view bookings and inquiries made by a particular customer. Bookings should be connected to menu items to view the items requested with the booking.

## Specifications

Parent/child relationships between the customer, booking and menu tables will allow us to query the database to see bookings made by a customer and what items they have ordered.

This also allows for managing repeat customers, as a query for orders by customer will return all orders associated with a set of customer details. By checking input to the customer tables during booking, we can match customer details entered with existing customer details.

By incorporating an HTML template for menu items to the application, the owner can dynamically add, remove and edit menu item entries to the database via an admin accessible menu item form/list and have them displayed on the application's menu page with little to no extra effort required.

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## **MILESTONES**

### **Entity Relationship Diagram**

Creation of an ERD visually depicts the relationships between tables and assists in the presentation and planning of the database structure.

### **Database Language Research**

Assessing database programming languages by security, flexibility, and function allows for an educated decision to be made to suit the client's needs.

### **Database Development**

With the database programming language chosen, the database can be created to the specification of the completed ERD. Once the database structure is in place we can populate tables with data required for the functions of the application.

### **Database Implementation**

Connecting the finalized database structure to the web application via online connection to the hosted database, with access to data operations through forms and templates.