

RESTAURANT MANAGEMENT AND DINING SYSTEM

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ABSTRACT

Restaurant management and dining system will help restaurants to manage and control their whole activities.

The guest needs to scan the QR code placed at the table in the restaurant's room and the guest can choose the menu. Either they can select and put it in the cart and they can place order. Automatically the order will be sent to the kitchen.

Restaurant management and dining system also helps to restaurant owners and managers manage their day-to-day operations more efficiently. This includes managing menus, reservation, payments, staff details.

Restaurant management and dining system also includes reservation system. A restaurant table booking system enables customers to make reservations for tables at a restaurant in advance. This system streamlines the reservation process, enhances customer experience, and helps the restaurant manage its seating capacity more effectively.

Modules:

- Admin/Manager
- Customer
- Staff
- Kitchen Department

Admin/Manager:

In this module, the admin will manage the staff. If we want to track every employee of the restaurant, we need to maintain his/her record. He can also manage menu and payment details.

Customer:

Customer scan the qr code and order items. They can also book the table and customize.

Kitchen Department:

They can see the ordered items, prepare dishes and serve it.

Staff:

Staff can register, take order and serve food. They can also apply for leave and view their details.

Software Specification:

Front end: HTML, CSS, Java Script

Back end: Python

Mini Project

Customer:

- Customers can scan the QR code on the table to view the menus and to place orders.
- Customer is able to view the food that is available in the restaurant
- Customize food items.
- View the status of food.
- Write feedback

Staff:

- View the order
- Take orders from the customers
- Staffs serve and send the food to respective tables.

Kitchen Department:

- View orders
- Update the status of food

Admin:

- View payment details
- View feedback.
- View the status of orders.
- Modification of menu items, prices, and descriptions.

Main Project

Admin:

- Generate QR code
- Manage Employee Details
- Manage salary details
- View summary
- Allocate staffs

Staff:

- Apply leave
- View their details

Customer:

- View the food items using augmented reality.
- Customers can pay the amount using online payment methods and also they can use cash in hand.
- Book tables
- Customize their table.

Technologies:

Payment: Customers can pay the amount using online payment.

Customers can view their food in 3d view.

Customers can see and customize their table using augmented reality.