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FOOD COURT MANAGEMENT SYSTEM

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ABSTRACT- This project completely aims on management of the food court which enables the food court owner to easily track sales. It is also designed for the customers to directly reserve table and place order. This helps the customer to save time as the waiting time for table is reduced and the food will also be ready at the given time. The Graphical User Interface provides functionalities to both customer and the owner or admin. The owner can track the sales, update menu, update table reservation details. The owner is given the facility to track all the details from his/her own live location. This is the ultimate aim and added advantage to this application.

KEYWORDS:

Customer: Table reservation, place order, pay bill, view the order

Server: Track sales, Update Menu, Update Table details, View Cancelled Reservation.

1.INTRODUCTION

A Food Court is an area where several catering outlets are put together with shared seating. In such cases it would be difficult for the food court owner to track sales and the customers even find it difficult to occupy seats during peak hours. This application is designed in a way that is advantageous to both, the customer and the food court owner.

Food court Management system is a client - server application. It enables the food court owner to access the status(activities/sales) of the food court from their live location. To proceed with this application, the user has to sign up and login. Our database checks with the information provided and gets them directed to their respective pages.

The customers can reserve their tables in the specific restaurant at desired location at required time and also place order. All these changes are reflected on the server side as well. On the server side, the admin can handle or look over all the hotels in the food court. He can view sales records, update menu, update tables and chairs in each restaurant. There are lots of applications that provide services only to the client side.

Generally, few features are available on the server side. Our application has given equal priority to both customer and admin. The admin and the customer can do their process in an effective way from their live location.

It saves lots of time for the user and the admin finds it easy to track all the data in a single application from their live location.

Tracking from the live location is the additional and exclusive feature of this application.

2.MOTIVATION

The main aim of this application is to support the food court owners in order to track the complete details of the food court. It would be difficult for a single person to track the complete business of the food court involving several hotels. This is also helps the customers who place order along with reservation to eliminate time delay. It is convenient to both the customer and owner.

3.PROBLEM STATEMENT:

When we consider a food court, both the customer and food court owner might face some difficulties. In the traditional method, everything was paper oriented and it caused a lot of human error. Let’s consider the

customer view, they feel frustrated when they don't get tables during any time of the lunch. This lowers their level of patience. Later, placing order through waiter will consume additional time which totally disturbs the peacefulness of the customer.

From the food court's owner perspective, the ultimate aim of the food court owner is to earn good profits and reach tremendous heights by popularity. He / She thinks about improving the group of outlets in his / her food court. They would like to switch to some automated process that makes their job convenient and also gain popularity among people.

4.PROPOSED SYSTEM

This application works in convenience for the client and server. Client interface has several modules like table reservation, place order, pay bill ,view table reservations, view order details. Initially, the customer has to select a particular location and choose the desired hotel from the list of hotels in a food court. The customer can either place orders or reserve tables along with placing orders.

When the customer chooses table reservation, they are redirected to a particular page and the customer is given a choice to choose the desired tables along with chairs based on the members count . After confirmation, the user is redirected to another page which lists the menu with price and they can place order. It redirects to the payment page and they can pay by scanning the scanner and entering the transaction id of the payment made. This page also has the details of the complete reservation and booking details and all the process from the customer side is complete. The customer who makes a reservation along with placing order has exclusive offers. The customer's order is confirmed only if the food court's owner accepts the order.

Now, Considering the admin or food court owner's side, the Food court owner has to confirm each reservation reserved by the customer. It has several modules like accepting the reservation, updating the menu like adding dishes or updating the price of the dishes or removal of any dish from the menu, updating tables on each reservation, viewing and analysing sales records. The Sales Record has the complete details of sales happening in all food courts in different locations. This feature helps the owner to have data of different food courts from a single application that enables him to track from live location.

The food court owner can view the details of the customer along with the reservation and order details at the specific restaurant where these customers have reserved. The food court owner is given the ability to cancel the order even if the reservation is confirmed.

The owner also has the facility to add dishes to the menu and add tables and chairs to the particular restaurant at a particular location. The food court owner can update data in different functionalities that reflect changes in the customer side.

Sales Record is one of the effective features that is highly helpful to the food court owner. All the hotel's sales are reflected in this sector.

5.SYSTEM REQUIREMENTS

5.1 SOFTWARE REQUIREMENTS

This explains about the specification of the system. It tells us what the system does but not how it does.

Operating system : Windows

Back end Language : PHP, JavaScript

Front End Tool: HTML, Bootstrap4, JS Database used: MySQL Server

Apache tool : xampp

Development environment : Visual studio code

5.2 HARDWARE REQUIREMENTS

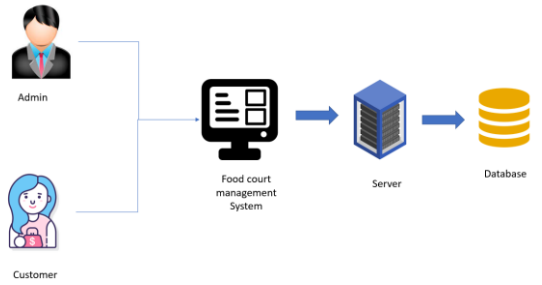
Hardware requirements forms the base of any application. Software engineers completely rely on hardware tools for implementing their projects.

Processor : Intel i3

RAM : Minimum of 4GB

6.SYSTEM DESIGN

It is the process of defining the architecture, interfaces and modules for a system to satisfy all the requirements.



6.1 Modules Description

Food court owner's Module:

1. Manage Reservation
2. Update menu details
3. Update seating details
4. Track sales Record
5. View cancelled Reservations

Customer's Module:

6.Table Reservation

7.Menu module

8.Pay Bill

9.View Order details

10.Cancel the reserved order

6.2 MODULE DESCRIPTION

Food court owner's Module:

6.2.1 Manage Reservation:

The admin should accept and review all the details of the order including the tables reserved and the order placed by specific customer. It also has invoice.

6.2.2 Update Menu Details:

The food owner can update the menu by adding new dishes to the menu, updating the price in the menu or removing dishes from the menu. This avoids re-printing of menu cards in real life and saves cost.

6.2.3 Update Seating Details

The admin can add tables and chairs at the specific hotel in a food court based on the incoming customer requests.

Table reservation is one of the biggest advantages of this application as the changes can be made quicker.

6.2.4 Update Seating Details

Sales Record has the complete sales and reservation details of all the hotels in a food court.

It holds all the customer details and several other information based on the sales made.

6.2.5 View Cancelled Reservations

This module holds all the details of the customer who have their cancelled orders.

This helps in analysing some details to an extent in order to avoid more cancellation.

Customer's Module:

6.2.6 Table Reservation

The customer can reserve tables in advance to have a peaceful and time-saving dinner.

The customer can choose tables and chairs based on the count of members and can place orders simultaneously which provides exclusive offers and the food will be prepared

at that reserved time and the customer can enjoy their food as soon as they reach the restaurant. Some customers without prior plans can enter restaurants, they can use the remaining available tables and they can also place orders directly without any reservation.

6.2.7 Menu Module
Customers will be able to have a look over the menu provided and choose their required food

6.2.8 Pay Bill
After placing orders, the user will be redirected to the payment page. It displays all the reservation details and order details and the amount to be paid. The customer can pay their bills with the scanner provided or displayed on screen.

6.2.9 View Order Details
This module helps customer to view the order details and reservation details

6.2.10 Cancel the reserved order
The customer can also cancel the reservation at any time after reservation

7.CONCLUSION

Thus, our project has provided detailed functionalities and fulfil the needs of both client and server. This application provides an efficient management system and it satisfies the customers as well.
Thus , we conclude that our project will provide solutions for all the futuristic problems.

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