

Project Title: Restaurant Management System

Category: Web Application

Purpose:

The purpose of this project is to make restaurant management easy and simple. This will completely take care of the customers coming to the restaurant from the start till the end. Finally the total amount, customers order status will be shown

Scope:

The Restaurant Management System helps to manage the restaurant more effectively and efficiently by computerized meal ordering and billing. It facilitates ordering within a traditional restaurant. The customers are able to view the menu, place orders and organise the final bill through their tablets. It provides the best customer service experience via tablet mode.

Introduction:

This contains the following subcategories

Existing system:

- The existing system does not have tablets.
- Everything is paper based.
- There might be some miscommunication caused by handwriting.
- Physical menus are used to convey the available food and beverage choices to customers, irrespective of available stock.
- Difficult order tracking and time management.
- Unmanageable order logging.

Proposed System:

The aim of this project is to create a restaurant management system that can incorporate the benefits but without any of the drawbacks of the existing system, as well as including many new features.

- **Wireless ordering system:** Waiters no longer required to walk to and from the central order computer system.
- **Menu control:** Menu can be updated by the administrator according to the availability of stock.
- **Order logging:** All orders logged for future query generation.
- **Order alerts:** Cook and customers in direct communication allowing them to know the status of orders.
- **Theme based restaurant:** Our restaurant is fully theme based in which customers can choose food items based on their favourite characters. It is based on an american sitcom 'FRIENDS'.
- **Kitchen order display:** Easy tracking and viewing of all active orders.

Advantages:

- Greater flexibility in menus.
- Increase in restaurant productivity.
- Efficient communication between customer and restaurant.
- No extra labour from printing and distributing new menus.
- With the system software taking responsibility for a customer's order, accuracy is ensured and all the actions are stored in the database.
- Using electronic devices makes the task of waiters less stressful and clumsy and they become more efficient.

FUNCTIONAL REQUIREMENTS:

- Organised display of active orders.
- Display progress of each order.
- Management can add/remove food items from the menu.
- Management can alter the price of the food items.
- Customers can view the transaction list of current order.
- Show customer's total amount and their orders on payment completion.

NON FUNCTIONAL REQUIREMENTS:

- Ability to use the application using a touch screen without the need of a keyboard or mouse.
- The application must be compatible with both the firefox and internet explorer.
- Management will be able to refresh menus, menu sections and meals.
- Ability to disable meals that have run out of compulsory stock items.
- Ability to interact with the MySQL database.

SOFTWARE TOOLS:

- **Database Server:** MySql
- **Client:** Any web browser
- **Development Tools:** VS Code
- **Front end:** HTML, CSS, JavaScript
- **Back end:** PHP

DEPLOYMENT:

- **Operating System Server:** Windows 8 and above, Linux, Mac Os.

HARDWARE SPECIFICATIONS (Minimum requirements):

- **Processor:** intel core i3, i5, i7, Amd
- **RAM:** 4 Gb
- **Hard Disk:** 1 Tb

Team members :

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