E-Menu Food Ordering System

Nikhil R. Bijargi[1], Aniket S. Mahadkar[2], Chaitanya C. Wadekar[3], Prof. V.M.Davande[4]

[123]Final year B.Tech Student, [4]Assistant professor

Department of Electronics and Telecommunication Engineering

DKTE Society's Textile and Engineering Institute Ichalkaranji, India

ABSTRACT:

Our proposed system is an online food ordering system thatenables ease for the customers. It overcomes thedisadvantages of the traditional queuing system. Ourproposed system is a medium to order online food hassle freefrom restaurants. Typically in a restaurant food orderprocess involves several steps for ordering thefood where firstly customer starting frombrowsing the paper based menu and then informto the waiter for ordering items. Usually theprocess requires that the customer has to beseated before starting. An alternative method forthe customers is E-menu food ordering system in which customer canbe able to create the order. The list of selected pre-ordereditems shall be shown on the screen, andwhen confirmed. The solution provideseasy and convenient way to select order form customers.This systemimproves the method of taking the order from customer. Theonline food ordering system sets up a food menu online andcustomers can easily place the order as per their wish. Alsowith a food menu, customers can easily track the orders. The payment can be made online payment or pay on at counter side. For more secured ordering separate accounts aremaintained for each user by providing them an ID and apassword.

KEY WORDS: Food ordering portal, raspberry pi 3b+,LCD display

1. INTRODUCTION:

The nature of today's world is changing day by day. The technology is playing a major role in human life like never before. This technology helps to increase human comfort as well as decrease the loss of time. The E-Menu Food Ordering System is this kind of System, which replaces the traditional ordering system, which involves human manual work. The reason to develop the project was to reduce time and increase accuracy.

Any restaurants or fast foods can use this project for customers for keeping their order records. This project is easy, fast and accurate. E-Menu Food Ordering System uses MYSQL Server, as backend so there is not any chance of data loss or data security. The customer is having option of having food in hotels or ordering to the home. This saves there time as well as efforts. The accessing of the E-Menu online helps them to manage their lunch or dinner at any time. It is very typical to establish a small-scale business with fewer resources to provide quality services. Now a day's people are attracted to online business. Let us that, assume if there is any online business, where Customers can order their needs and the goods will reach them.

The customers of today are not only attracted because placing an order online is very convenient but also because they have visibility into the items offered, likewise
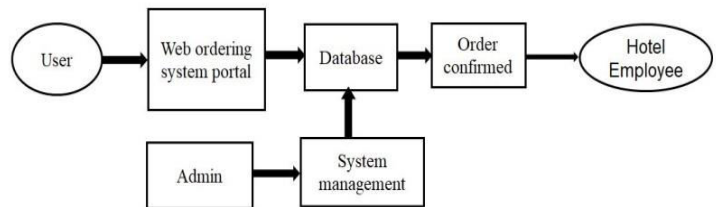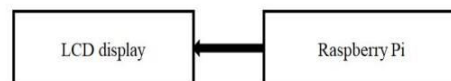

Fig. 1. Customer Side

Fig. 2. Counter Side

online food ordering system customers can order their favorite foods and this database will be the barrier for the customers and restaurants to provide the services. The Items list and categories of the foods are available in the database so that a customer can place an order with multiple items.

Once the order is placed restaurant employees process the order and deliver it to the customer as soon as possible. Order copy will be send to account section and kitchen section. Hence, the customer will pay manually.

2. BLOCK DIAGRAM:
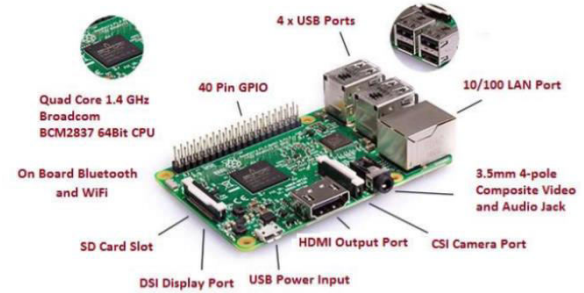
3.HOW OUR SYSTEM IS DIFFERENT:

Our project is cost efficient as compared to current model. As we see, the same in various restaurants separate tablets or screens are available on each table, which will cost around 3k-4k each to ultimately it will, increase the overall cost of the system.

## 4. FLOW CHART:
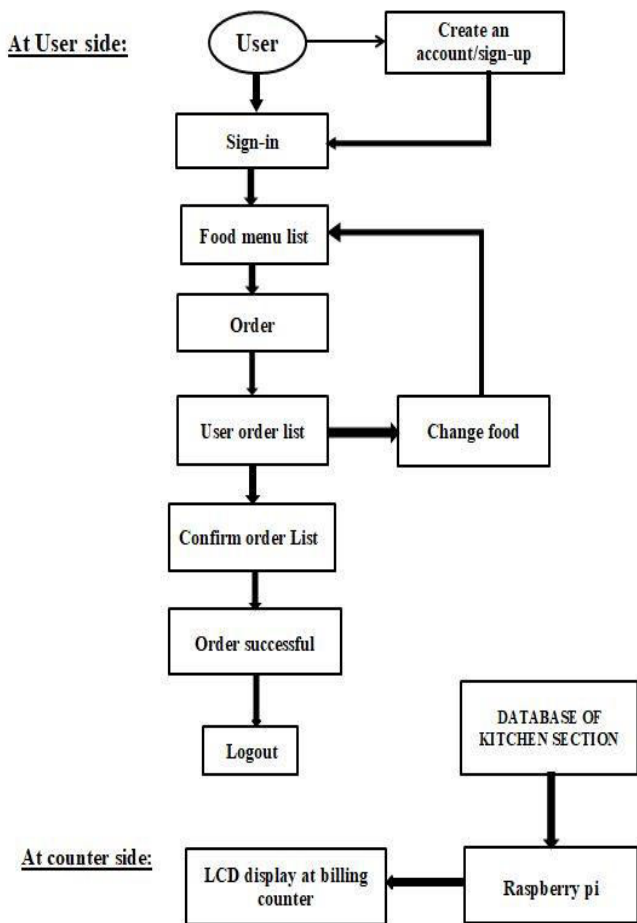
5. COMPONENTS:

5.1. Raspberry pi:

Raspberry Pi is used for making robot wireless and web based.ge Raspberry Pi and then the videos are transmitted wirelessly from the robot to the user's monitor, from where the user can conveniently control the robotic vehicle's movement and the robotic arm movement. Raspberry pi is connected with the dongle, which enables raspberry pi to transmit over the web network. Raspberry-Pi Module Raspberry Pi uses an SD card for booting and for memory as it does not have an inbuilt hard disk for storage.

Features

• Broadcom BCM2837 64bit ARMv7 Quad Core Processor powered Single Board Computer running at 1.2GHz 6

• 1 GB RAM

• BCM43143 Wi-Fi on board

• Bluetooth Low Energy (BLE) on board

• 40pin extended GPIO

• 4x USB 2 ports

• 4 pole Stereo output and Composite video port

• Full size HDMI

• CSI camera port for connecting the Raspberry Pi camera

• DSI display port for connecting the Raspberry Pi touch screen display

• Micro SD port for loading your operating system and storing data

• Upgraded switched Micro USB power source (now supports up to 2.4 Amps)

• Expected to have the same form factor has the Pi 2 Model B, however the LEDs will change   position.

5.2.Lcd display
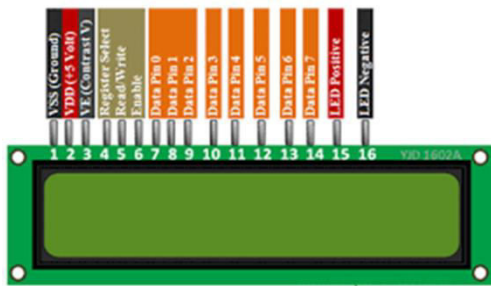
LCD (Liquid Crystal Display) is a type of flat panel display, which uses liquid crystals in its primary form of operation. LEDs have a large and varying set of use cases for consumers and businesses, as they can be commonly found in smartphones, televisions, computer monitors and instrument panels.

LCDs were a big leap in terms of the technology they replaced, which include light-emitting diode (LED) and gas-plasma displays. LCDs allowed displays to be much thinner than cathode ray tube (CRT) technology. As LCDs have replaced older display technologies,

5.3 **Tool required for project:**

- PHP

- Xampp control panel

- HTML

- JavaScript

- Visual studio code

- Css

5.3.1. Php:

Hypertext Preprocessor (or simply PHP) is a server-side scripting language designed for Web development, PHP code may be embedded into HTML code, or it can be used in combination with various web template systems, web content management systems, and web frameworks

5.3.2 Xampp Control panel:

XAMPP is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P).

5.3.3 HTML

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web

5.3.4 Java Script

JavaScript often abbreviated as JS, is a high-level, interpreted programming language. It is a language, which is also characterized as dynamic, weakly typed, prototype-based and multi-paradigm. Alongside HTML and CSS, JavaScript is one of the three core technologies of the World Wide Web.

Css

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML.

6. METHODLOGY

This system provides the functionality for customers to place their food order and supply necessary details of their name, address, phone number at sign in position. User must follow the following steps for getting their order properly.

1 .Firstly, user / customer can create an account on our portal, for creating an account; user can enter their full details on that form.

2. Then user / customer can Log in to the system.

3. After logging into the system, user can navigate the restaurant's menu.

4. Then user can select a food item from the menu list.

5.User can also add a food item to their current order.

6. User can Review their current order before placing their order.

7. Also, remove a food item/remove all items from their current order and also can add food item in that current order and confirm order.

8. User can choose their payment method after selecting the food.

9. Then user will place an order and see total bill on that portal.

10. Then user can receive confirmation in the form of an order number on that portal.

11. After successful order, users can logout the portal. In addition, wait for their order.

12. At same time, when user can click on confirm order button then at database section, all orders of customer are shown.

13. Then after, all data of user and total bill send to billing counter.

14. This is whole process of food ordering system.

7. MERITS:

• It can be built with low cost.

• This system reduces manual Works.

• All the data will be saved in the database.

• For developing good business through Website.

• Makes ordering process easy way.

• Less hard work

8.LIMITATIONS:

• Website will not able to send any notification about any report from system to customer.

• User will not able to change the structure or processing of website.

• Chances of Technical problem in the system.

9. CONCLUSION:

The conclusion of this E-menu Food ordering system is to manage the details of item of food category, username user address, food order, and order placing. The project is totally built at front-end development Using html, css and back end using Php, JavaScript and the Xampp control panel. The purpose is to build website and application program to reduce the managing the item category, food customers.

This Food Ordering system provides simple way to store the details of the customer food list and generate the bill at billing counter. With this platform, we developed the food-ordering website using Php, JavaScript. We are hoping to reduce time of wasting and less hard work. This project is useful for small-scale business and development of the business.

10. REFERENCES:

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