**1.Introduction**

**1.1 Problem Summary and Introduction**

**1.1.1 Introduction:**

The “Blood Bank “The Blood Donation Agent is to create an e- Information about the donor and Organization that are related to donating the blood. This project is aimed to developing an online Blood Donation Information. Online Blood Bank is aims serving for human welfare. We have all the information, you will ever need. Many people are here for you, to help you, willing to donate blood for you anytime. We have done the entire job, rest is yours. Search the blood group you need. You can help us by registering on Online Blood Bank if you are willing to donate your blood when needed.

Through this application any person who is interested in donating the blood can register himself /herself in the same way if any organization wants to register itself with this site. That can also register. As a proud member of Online Blood Bank and a responsible human being, you can help someone in need. So, donate blood in online is a precious thing.

**1.1.2 Problem summary:**

The problem that affects restaurants is the hectic queue due to a big lunch or dinner rush. Checks may be misplaced in the kitchen, and customers will be forced to wait for their misplaced order to be prepared. Also, there is an innate bottleneck when only waiters can place orders. A table may be ready to order, but their waiter may be serving food or cleaning up after another table. Also there are no online payment. In the Tablet food ordering system main problem is only OT takes order. Customers have not permission to use tablet and place order. By using CORA System customer will able to overcome of these problems. They can book their table, they can get their meal at desired time they can order, the food form own phone, they can update order also and much more. CORA offers customer to pay their bills online also effortlessly.

**1.1.3 Purpose:**

Our system is purposed to reduce the effort of customers are recently facing. Currently in restaurants there is hectic queue due to a big lunch or dinner rush. Checks may be misplaced in the kitchen, and customers will be forced to wait for their misplaced order to be prepared. A table may be ready to order, but their waiter may be serving food or cleaning up after another table. Also, there are no online payment. CORA will reduce these all problems. By using it all problem of misplace and waiting will be solved because order given by customer directly goes to chef and order from chef directly to customer. So, there is no chance of miscommunication and misplace. CORA offers online payment option to customer also.

**1.1.4 Scope:**

* Application will be used in restaurant.
* Application will be used at anytime and anywhere for booking table.
* Application will be used for pick up the order from the Restaurant.
* Application also provide home delivery facility to Customers.
* View and Update the customer information.
* Generate different order from Menu.
* Report of daily order process.
* Adding/Updating of menu item.
* Adding/Updating of order details.
* Generate bill details.

**1.1.5 Features:**

* Push notification
* Auto ordering from customer
* Cancelation or edit before order confirmation
* Online Payment
* On click order confirmation from kitchen staff

**1.1.6 Modules:**

* **Table reservation:**
* A table reservation is a arrangement made in advanced to have a table available at restaurant.
* Customer can book their table for their convenience.
* All these will handle by admin.
* **Food ordering:**
* Food ordering is arrangement that helps customers to order their food easily.
* It can be done using E-menu.
* No waiter will be required.
* **Billing:**
* It will also handle by admin.
* Bill payment can be done using cashless payment option.
* All record will be saved.
* Automatic bill generation.
* **Payment:**

Both cash and cashless method will be available.

* **Feedback:**

Customers can give their valuable feedback and suggestions.

**1.2 Aim and objectives of the project**

**Aim:**

* For better customer experience set direct communication to chef.
* Place Simple UI for kitchen staff.
* One click order confirmation and push notification to customer.

**Objectives:**

* No fever of data loss.
* Just need a little knowledge to operate the system.
* Reduce complexity, save time and prevent mistakes.
* Multiple users can Place order.
* Provide improved and quick communication with customer.
* To maintain consistent customer base.
* Provide facility of order information and customer information on Application
* To lower communication and servicing expenses.
* Increase selling and provide customer satisfaction.

**1.3 Problem Specifications**

Currently, the problem that affects restaurants is the hectic queue due to a big lunch or dinner rush. Checks may be misplaced in the kitchen, and customers will be forced to wait for their misplaced order to be prepared. Also, there is an innate bottleneck when only waiters can place orders. A table may be ready to order, but their waiter may be serving food or cleaning up after another table. Also there are no online payment. In the Tablet food ordering system main problem is only OT takes order. Customers have not permission to use tablet and place order..

**1.4 Brief literature review and Prior Art Search (PAS) about the project. [It should include Web search/research publication, User feedback, Vendor/market search, Patent Search (Do not attach the whole PSAR report, mention just one-page gist/summary)].**

* **Literature Review: -**

**1.4.1** **Title: “RESTAURANT AUTOMATION SYSTEM”**

**Author:** Yogin P. Suthar

**Publication:**

In its preferred embodiment, the present invention provides a restaurant automation System which comprises at least an Automated Ordering System (AOS) component System, and may also include at least one of following component systems; the Waiter Call System (WCS), the Reception Management System (RMS), and the Customer Personalization System (CPS). Diners using the Waiter Call System do not have to waste time catching the attention of a particular waiter. Instead, the WCS sends a clear signal that is visible to any member of the common Service pool. The RMS may be set to calculate table wait times based on real time dining Status information for the particular restaurant, and allocates tables based on input from the Reception Display and the Reservation Display. The customer and restaurant intelligence of the Restaurant Automation System within a restaurant resides in the main RAS (Restaurant Automation System) compute server. This server maintains the restaurant menu, chef information, restaurant history, hyperlinks to advertiser's website, table Status, and other rich content and makes it available to the E-Menu devices, Reception Display Kitchen Order Display, and other dis plays of the restaurant's RAS.

**1.4.2** **Title: “FOOD AND DRINK ORDER AUTOMATION SYSTEM”**

**Author:** Robert Kin Tsang

**Publication:**

Its relates to an improved food order placement System allowing a remote, interactive audiovisual communication between the wait Staff and the kitchen/bar stations. The wait staff can remotely submit a food/drink order to the kitchen/bar stations without physically being there. Once the drink and/or food order are completed and ready to be delivered to the customer table, the kitchen/bar Staff can Send a electronic notification to the PDA handheld device(s) carried by the wait staff. The Order Automation System attempts to reduce the time spent traveling between customer tables and Stations/kitchen/bar. When travel time is reduced, restaurant patrons receive food and drink orders much faster. Sheer Sales Volume increases when restaurant patrons get in/out of the restaurant in a Shorter time slot. The restaurant patron's increased turnover rate generates higher revenue without affecting operating cost. The complete Food and Drink Order Automation System, if used properly, will not negatively affect the overhead or operating cost.

**1.4.3** **Title: “ELECTRONIC MENU AND ORDERING SYSTEM”**

**Author:** Michael A. Liberty, Jeffrey Ian Pollack

**Publication:**

Embodiments described herein are directed to providing meal information and event ticketing to a customer via an electronic menu. In one embodiment, a computer system provides an electronic menu to a user. The electronic menu includes a user interface that allows users to select different meals provided by a restaurant to obtain information about the meal. The electronic menu further provides an indication of local events that are to take place within a specified time period and within a specified distance from the restaurant. The computer system receives an input from the user selecting at least one of the meals provided by the electronic menu's user interface and, in response to receiving the input, provides meal-related information for the user-selected meal. The meal-related information includes textual information, audio information, pictures and/or video content.

**1.4.4** **Title: “CUSTOMER-BASED WIRELESS ORDERING AND PAYMENT SYSTEM”**

**Author:** Konrad Hernblad

**Publication:**

The system directed to improve customer-based food ordering Systems. The present invention makes use of Specially designed terminals and existing, Internet-capable, handheld mobile devices that allow customers to wirelessly place and pay for food/drink orders at food service establishments without requiring the intervention of a Staff person. The present invention therefore not only handles order placement and payment Settlement, but also order fulfillment, and includes additional features, Such as a multi-lingual inter face, automated Seating, pre-ordering, customer reward points, and dynamic Selling or promotion of unwanted inventory. In addition to being a cost-effective, reliable, Secure System, it greatly Speeds up the entire ordering process, reduces customer wait times, increases the efficiency of establishments operations, and improves customer Service and the overall customer experience at food service establishments. Furthermore, the adoption of this technology will alleviate establishment owners’ concerns over labor Shortage and cost.

**1.5 Plan of work**

So the planning is first developing a complete work flow of project and develops a blue print of basic design of system. Second we will start the implementation of our application. Then we are also completed the BMC canvas and PSAR. At last we apply for PDE related to our application.

|  |  |  |
| --- | --- | --- |
| **Task** | **Months** | **Works** |
| Task1 | Jun-July | Research Analysis |
| Task2 | Aug-Sept | Design analysis, canvas, |
| Task3 | Nov-Dec | PSAR, Implementation |
| Task4 | Jan-Feb | Implementation |
| Task5 | Feb- March | Canvas, PDE |
| Task6 | April | Implementation completed, testing and report |

Table: 1.5 Plan of work

**1.6 Tools required.**

* **Software Requirement for implementing system:**

|  |  |
| --- | --- |
| **COMPONENTS** | **SOFTWARE REQUIREMENTS** |
| IDE | Android studio |
| Operating System | Windows 7/8/10 |
| Front End | Android Sdk |
| Back End | FIREBASE No SQL DataBase |

* **Hardware Requirements**

|  |  |
| --- | --- |
| **COMPONENTS** | **REQUIREMENTS** |
| PROCESSOR | INTEL core i5 with 2.2Giga or higher processor |
| RAM | 1024 MB RAM |
| HDD | 40-80 GB HDD |
| MOUSE | ANY MOUSE |
| Tablet | Android 5.0 with 1 GB RAM |
| Android mobile | Android 5.0 with NFC |

* **DOCUMENTATION**

|  |  |
| --- | --- |
| **COMPONENTS** | **SOFTWARE REQUIREMENTS** |
| Diagrams | Microsoft Visio 2016 |
| Documentation | Microsoft word 2016 |