Simplified Ipad Ordering System For Hotels
C.Goutham thapa\textsuperscript{1} Mr.Airthik Daniel Das\textsuperscript{2}
\textsuperscript{1}U.G. Student \textsuperscript{2}Assistant Professor
\textsuperscript{1,2}Department Of Computer Science and Engineering
\textsuperscript{1,2}Saveetha School Of Engineering, Saveetha University, Thandalam, Chennai, India.

Abstract— Simplified Ipad Ordering System for Hotels is an Ipad application based project. It will give restaurant customers access to menus of food items organized in categories. Customer will have quick access to menus of food and other items with simple navigation, up or down swipes to vertically scroll through food and other items. This application can be used in two ways. Customer also can access to the Ipad or else the hotel waiter can serve over several tables with a single Ipad. Once the order is done, the push message will be sent to the kitchen POS (point of sales). A push notification will be appear in the monitor available in the kitchen. The push message contains table no, list of item with needed ingredients. Customer can order multiple numbers of items with their choices. The ordered items contains item id, item quantity, table no, date & time and device id. It can overcome the human error while taking the order. The application have search bar option which helps the customer to search and select the items. Search bar makes easy of access to the needed items fast. Customers also can add the several items to their favorite block. Even feedback, like, unlike, email and printing options are available.

Key words: customer, push notification, items.

I. INTRODUCTION
Digital systems are using in many kind of business sector. Here this project uses digital system in hotel ordering application. Most of people want something new scenario in many criteria. So hotel ordering system is developed using the digital technology. POS stands for point of sales which is used in this application, pos systems are used to provide the push notification once the user call any function the push message will appear to the another pos system. This project uses xcode framework to develop using objective c programming language. This application is compatible with mac or ios platform. To overcome the time duration between taking the order in paper sheet and make a call to kitchen. If hotel spent some bulk of amount to buy some ipads once, servant cost will be reduced. If hotel or restaurant has 20 servants at a time to work 7 to 10 servants are enough to serve at a time. Monthly salary charge can be reduced.

II. SYSTEM ANALYSIS
A. Existing System
In current scenario, restaurant will have POS systems and the system will be accessed by the employees in the restaurant, customers don’t have access to the system. This may increase the servant cost.

B. Proposed system
E-Menu application will provide restaurant customers with a tool to access menus of food items to make an order related to a restaurant. E-Menu is an intranet application which will replace the menu card. The customer will be given an Ipad to access the menu; the customer can select the items and place an order. Once order is placed, it will send a push notification to the service manager and the manager will pass the request to the kitchen. If an item is not available the service manager will push back the customer item order request and customer will receive the message & will place order of some other item.

III. REQUIREMENT SPECIFICATION
A. Introduction
The requirements specification is a technical specification of requirements for the software products. It is the first step in the requirements analysis process it lists the requirements of a particular software system including functional, performance and security requirements. The requirements also provide usage scenarios from a user, an operational and an administrative perspective. The purpose of software requirements specification is to provide a detailed overview of the software project, its parameters and goals. This describes the project target audience and its user interface, hardware and software requirements. It defines how the client, team and audience see the project and its functionality.

B. Hardware and Software Specification
(1) Hardware Requirement
- Hard Disk : 80 GB and above.
- RAM : 512 MB and above.
- Processor : Pentium III and above.

(2) Software Requirements
- Operating System: Mac OS
- Language : Objective C
- Database : SQLite
- Tools : iOSSimulator
- Framework : XCODE 4.5

IV. SYSTEM DESIGN
A. Architecture Diagram
It gives the basic architecture of the developing project.
V. SYSTEM IMPLEMENTATION

A. Modules and features Explanation:

1) Order Item
Order items contains item id, device id, item quantities, table no, date and time. This information is used to get and take item order.

2) Like and unlike items
Update like, unlike, product id and Facebook user id for a like and unlike item and return update status success or failure.

3) Search
Get filter menu item categories and its search criteria. Get items based on the search criteria applied.

4) Favorites
Get favorites items of all or particular customer based on the customer and their friends Facebook ID. Even the customer can make their own favorites items list and can access it wherever they want.

5) Push notification
Push notification based on the restaurant server action for an order made. This notification is displayed in both the kitchen POS and customer ipad.

B. Experimental analysis:
This screenshot displays list of items that in available in the restaurant and it also provides the facility to search for the customers needed food recipes.

The search feature is particularly important when you need to display tons of information in table view. Once the customer selects the particular item the ingredients detail will be display.

The ingredients detail can be modified by the customer as per their needs and the time required to prepare the item is displayed in the window.
VI. CONCLUSION
We have proposed the digital technology in hotel ordering system. Development of Simplified Ipad Ordering System for Hotels is a challenging task. Now a day’s most of people are aware of digital system usage and they know to use it too. It can overcome the human error while taking the order. More on in advance this project can be developed with even more features such as the robot taking the order with ipad.

REFERENCES