RESTAURANT TABLE ORDER MANAGEMENT APPLICATION

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ABSTRACT:
The aim of this project to develop an application in android to keep everything related to restaurant/hotel table management as simple as possible. This project can be utilized by servers/manager/supervisors in a hotel to manage the customers and their orders. Further it helps the clients to find free tables or place orders. The hotel menu is classified by the type of the food (soups, salads, entrees, appetizers, sides and drinks). In every type of food, there are various food items available. Each food item has a related name (e.g. biriyani, chicken), rate and related d recipe. A recipe to a food item has an instruction for preparation, related ingredients and chef. This system will offer services to the customer and also to the management/administration/employees of the restaurant. The offered services are food ordering and booking of table by the customer through the system. The modules which are used in this project are Customer Registration, Customer Login, Table order, Food order and View order. The technologies that are used to develop the project is Android Studio, Jsp, php and sqlite. This project will make easily the jobs of customer and employees (admin) of hotel. This project can be extended future by incorporating home delivery module.

Key Words: Android, Mobile application, table reservation, food order, customer and restaurant.

1. INTRODUCTION
This project is to allow customers to put queries online and avail services by providing the needed details using android. Android is a mobile operating system developed by Google. It is used by several smartphones and tablets. The users can use this app to book a table and ordering the food at a particular date and time by sitting anywhere. The admin can maintain the schedule of ordering table and food then the waiter can visit his schedule.

1.1 OBJECTIVE
The main objective of this project is to allow the management/administration and employees of a restaurant to handle the customers and also the customers to put their orders online and to find free tables. This app is developed mainly for providing a proof for proper user-mobile interaction. Administrator is responsible for handling new customer, new waiter, new menu into database, etc.,

2. EXISTING SYSTEM
The Restaurant currently runs a manual reservation system and the customers looking for reserving the tables or any other services do it by walking to the hotel or contact on phone or using a third party option.

2.1 LITERATURE SURVEY
Paresh. R. Bora and Eshan Gupta [2012] discuss about an application for order management system for restaurant [1]. “The rampant growth of mobile and wireless technology is making a large impact in our lives. Nowadays people are looking forward for an application that satisfies their needs even more comprehensively. Most of the restaurant industries are looking for any mobile application that enhances the dining experience as well as that increase the profit. This application runs on devices such as tablets which provides convenience, improves efficiency and accuracy of restaurants by saving time and reducing human errors.”
Hanisah Binti Md Taha [2008] proposes "Online Restaurant Management System (ORMS)" which is a web application for restaurant management [2]. This system provides service facility to restaurant and also to the customer. Software and hardware used are AppServ, Macromedia Dreamweaver 8, Microsoft Visio 2003, Apache serve and MySQL database. Furthermore, this project is developed for restaurants management and enhance business online. this project facilitates customer to make online ordering and table reservation.
2.2 DISADVANTAGES OF THE EXISTING SYSTEM

The major disadvantage of the existing system as follows:

- Waiter friendly application not customer friendly application.
- It is web based application.

3. PROPOSED SYSTEM

The aim of proposed system is an android application that allow customers of restaurant to enquire online and book for services by inputting the needed details using android.

The manual table booking is replaced with the online order system.

- Management can pull reports at anytime to tell the current situation in order to put the necessary measures in place.

This android application is allows customer to book table through android mobile phones. Using system customer can view and check for various table available and simultaneously book them by making online payment gateway via credit or debit card. The system calculates the total cost on table booking the services. Once customer makes the payment, this system will generate receipt and will be sent to respective customer email ID and it will be reported to the admin. When customer visits the table and he must show the receipt for the table allotment. To use this application customer may require android mobile phones along with internet connection.

3.1 ADVANTAGES OF PROPOSED SYSTEM

The advantages of proposed system are:

- The manual table booking is replaced with online booking system.
- Management can pull reports at any time to tell the current situation in order to put the necessary measures in place.
- The system helps secure customer details since no details is disposed off.

4. METHODOLOGY

The entire project is divided into two modules namely customer and administration. Only registered users can Login in to the Application and can access the application one user can have only one account, no duplicate is possible. This system allows user to ordering a food and reserving the table in the mobile application. The admin can view the details of food orders and table reservations.
FIGURE 4.1 OVERALL ARCHITECTURE DIAGRAM OF THE SYSTEM
The architecture design for the project shows the overall structure of the project. This architecture diagram provides us the platform to implement job that will be scheduling within the cloud computing. The basic component involved in this architecture are prediction and scheduler.

5. RESULT:
The project user (CUSTOMER) enters the personal details to get an account which is needed to be used in the Android App. The user can view the food. This will allow the user to reserve a table and the reservation details are sent to the email ID of the user. The results and output screens are shown in the following Figures.

FIGURE 6.1 SHOWS THE LOGIN PAGE

FIGURE 6.2 SHOW THE SIGN UP PAGE
FIGURE 6.3 SHOW THE COVER PAGE

FIGURE 6.4 SHOW THE FOOD ORDERING PAGE
7. CONCLUSION:
The Online Restaurant Table Reservation application was implemented to reduce the manual process of booking for a hotel room or any other facility of the hotel. The old system does not serve the customer in a better way rather it makes customer data vulnerable. The new system keeps proper records of customers.

8. REFERENCES