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## **Restaurant table reservation system**

### **Scope:**

The scope of this project is to build an application for reserving tables for restaurants. Through restaurant reservation system online, users can be allowed to take reservations quickly and easily. The proposed system also provides additional optional features for customer to reserve which food to eat from home and reserve table through the application by just paying a booking amount to save their valuable time. It will not only help the customer but also help the restaurant to manage and serve customer easily. The manager doesn't have to maintain a guest book anymore. The manager can see who is coming and at what time. In that they are aware about which tables have been booked. The system will also notify the customer if there is a delay for their reservation by the restaurant, it will help the customer to re-schedule their reservation. The sole objective of the proposed system is to eliminate the wait time of the customer, enhance the customer eating experience and manage the large number of customer by the restaurant. Restaurant table reservation system is an android application That can affectively improve their restaurant table reservation system in order to provide direct access of every user to the management. This application can assist to avoid holding up time spend at the restaurant.

### **Technology stack:**

The project mentioned above uses android smartphones and tablets to pair with NFS sensors and cloud technology. Android Studio is going to be used with IDE for the application with its Android SDK including debugger and libraries. The Application developed for this project will be programmed with a. Backend Microsoft SQL Server, Visual Studio, Android Studio. It Would have hardware requirement of Processor – i3, Hard Disk – 5 GB, Memory – 1GB RAM, Android Phone with Kit Kat and higher. As it is a prediction project we can use data mining so we can predict in case if their seats are full but if there are any chance of having vacant seat.

### **Benefit For Environment:**

As the project mentioned above is mainly an app so it does not require any work in written format on paper. So which is very beneficial for environment as all data is saved in the app so there will be no need of paper which means less usage of paper. So there will be less cutting of trees. As this project requires less energy so the consumption of electricity is reduced.

### **Benefit For Society:**

The benefit for society of proposed system is given as followings:-

- 1) Rights are reserved at customer's fingertips.
- 2) During festive seasons, tables get booked shortly, in such cases clients can make advance booking for utilization of ordering framework.
- 3) It saves client's time looking out for restaurants.
- 4) It saves business assets and costs.
- 5) It discourages the involvement of third party or a middle man by providing a direct interface of customers to their service providers. It avoids to customers to pay heavy commission.

### **Applications:**

The Restaurant Reservation is used to people have different mindset, sometimes they don't want to miss their favorite restaurant on their very special day or occasion so they like to book a table for the decided number of person. It significantly time saving and gives one a sense of relaxation. Sometimes we have an important meeting or a business gathering, which we want to keep in any exclusive and peaceful ambiance so we book for a suitable restaurant and make the arrangements according to the event. This controls flow of information for owner and Manager and enhance better table management which results an overall improved Management of the Restaurant. That guests who leave happy from the restaurant will leave a pleasant feedback and so would be their word of mouth, so it's an important aspect for a successful business planning. With the help of such booking systems designed for our assistance, one can easily check the availability instead of calling to the respective restaurant and ask them to check. Also if any kind of change is made, restaurant is responsible to inform you, so you don't have to track for Operating Hours, Location, and Menu and much more, everything will be taken care of by the restaurant itself.