

# A Web Platform for Mess Management System: An Overview

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**Abstract :** The main aim of the mess is to provide clean and fresh food to the students/employees of the organization. In Today's world the entire Mess Management and costing calculations are done manually till date. It is very time consuming & increases the chances of performing calculation mistakes. Thus, there arises a need to create software that will make the entire Mess Management an automated system. This software will be useful to any school/college hostel or in general to any institute maintaining a mess. The Mess Management System helps the user to access all the functionalities of the mess without having to visit the mess physically and to apply for leave. It enables the admin to view the inventory and access guest details. This application is free of cost for the users. Individuals who wish to use any functionality of the mess can simply log in to the app and have everything on their fingertips. It uses the internet to update all user queries and put it across to the admin. Using the information provided by all the users the admin can take decisions and the inventory for the mess can be managed. The aim of this android based mobile application project is to offer comprehensive information portal about hostel mess. In this system users can download the app on their Smartphone and then they can access the functions of the mess. They can apply for leave and check the menu. They can also access their account information.

**Keywords :** Mess Management, inventory, Information Portal.

## I. INTRODUCTION

Each hostel, school or office has a mess hall for providing food to its members. The main aim behind this project is to get the current status of mess & meals per day, to manage details regarding the stocks of vegetables, groceries and purchasing based on daily fluctuating rates. The software also provides the costing and monthly calculations of each item used. The software has five stores in which the entire stock is maintained. Each store contains a particular set of items like items which are required daily, miscellaneous items, vegetables, grains etc. In the software we are maintaining the entire detail of the cadets. It also includes options such as adding the cadet information, deleting the cadet information. We are also providing the link through which current market rates can be known.

## II. LITERATURE SURVEY

According to [1] an automated food ordering system is proposed which will keep track of user orders smartly. Basically, they implemented a food ordering system for different type of restaurants in which user will make order or make custom food by one click only. By means of android application for Tablet PCs this system was implemented. The front end was developed using JAVA, Android and at the backend MySQL database was used.

According to [2] Customer using a Smartphone is considered as a basic assumption for the system. When the customer approach to the restaurant, the saved order can be confirmed by touching the Smartphone. The list of selected preordered items shall be shown on the kitchen screen, and when confirmed, order slip shall be printed for further order processing. The solution provides easy and convenient way to select pre-order transaction form customers.

According to [3] there was an attempt to design and implementation of digital dining in restaurants using android technology. This system was a basic dynamic database utility system which fetches all information from a centralized database. Efficiency and accuracy of restaurants as well as human errors were improved by this user-friendly application. Earlier drawbacks of automated food ordering systems were overcome by this system and it requires a onetime investment for gadgets. In [4] an application of integration of hotel management systems by web services technology is presented. Ordering System Kitchen Order Ticket (KOT), Billing System, Customer Relationship Management system (CRM) are held together by the Digital Hotel Management. Add or expand of hotel software system in any size of hotel chains environment was possible with this solution.

According to [5] research work aims to design and develop a wireless food ordering system in the restaurant. Technical operations of Wireless Ordering System (WOS) including systems architecture, function, limitations and

recommendations were presented in this system. It was believed that with the increasing use of handheld device such as PDAs in restaurants, pervasive application will become an important tool for restaurants to improve the management aspect by minimizing human errors and by providing higher quality customer service.

According to [6] along with customer feedback for a mess a design and execution of wireless food ordering system was carried out. It enables mess owners to setup the system in wireless environment and update menu presentations easily. Smart phone has been integrated in the customizable wireless food ordering system with real-time customer feedback implementation to facilitate real-time communication between mess owners and customers.

According to [7], the purpose of this study was to investigate the factors that influence the attitude of internet users towards online food ordering in Turkey among university students. A Technology Acceptance Model (TAM) developed by Davis in 1986 was used to study adoption of Web environment for food ordering. Trust, Innovativeness and External Influences are added to the model as main factors along with TAM.

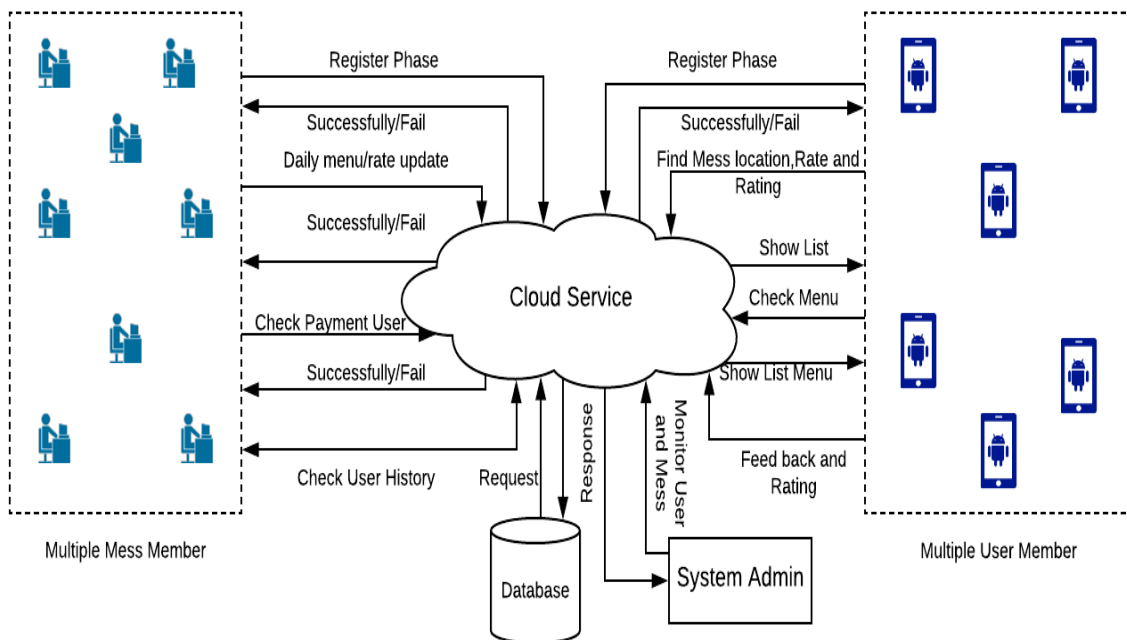
According to [8], the research work aims to automate the food ordering process in mess and also improve the dining experience of customers. Design implementation of food ordering system for restaurants were discuss in this paper. This system, implements wireless data access to servers. The android application on user's mobile will have all the menu details. Kitchen and cashier receives the order details from the customer mobile wirelessly. These order details are updated in the central database. The mess owner can manage the menu modifications easily.

According to [9], this research works on efforts taken by restaurants owners also to adopt information and communication technologies such as PDA, wireless LAN, costly multi-touch screens etc. to enhance dining experience. This paper highlights some of the limitations of the conventional paper based and PDA-based food ordering system and proposed the low-cost touch screen based Mess Management System using an android Smartphone or tablet as a solution.

### III. RESEARCH METHODOLOGY

- Admin creates the mess account of web portal.
- Every mess owner having own login credentials, and they can login to system with that credentials.
- Every mess owner having own dashboard where they can update the food as well as menus.
- Each user should be able to detect the near by mess, distance should be varied base on user define threshold.
- Mess should be shows in list base on current rating as well as distance also.
- Use can select the veg non-veg mess type, as well as able to see all the menus which is uploaded by mess owner with charges.

User can write the comment and rate also to specific mess



**Figure 1 : System Architecture**



This system will be useful to any school/college hostel or in general to any institute maintaining a mess. This software will also enable Stock purchasing based on daily fluctuating rates. It will help to lessen the work-load of mess managers, reduce manpower, thus reducing the capital being invested.

#### IV. CONCLUSION

Therefore, conclusion of the proposed system is based on user's need and is user centered. The system is developed in considering all issues related to all user which are included in this system. Wide range of people can use this if they know how to operate android smart phone. Various issues related to Mess/Tiffin Service will be solved by providing them a full fledged system. Thus, implementation of Online Food Ordering system is done to help and solve one of the important problems of people. Based on the result of this research, it can be concluded: It helps customer in making order easily; It gives information needed in making order to customer. The Food website application made for mess and mess can help mess and mess in receiving orders and modifying its data and it is also made for admin so that it helps admin in controlling all the Food system. With online food ordering system, a mess and mess menu online can be set up and the customers can easily place order. Also with a food menu online, tracking the orders is done easily, it maintain customer's database and improve the food delivery service. The restaurants and mess can even customize online mess menu and upload images easily. Having a mess menu on internet, potential customers can easily access it and place order at their convenience. Thus, an automated food ordering system is presented with features of feedback and wireless communication. The proposed system would attract customers and adds to the efficiency of maintaining the restaurant and mess ordering and billing sections. Scope of the proposed system is justifiable because in large amount peoples are shifting to different cities so wide range of people can make a use of proposed system.

#### V. FUTURE WORK

In the future, the system will support internationalization. At least, Hindi and English language environment will be provided, customers that come from different countries can order dishes in their own language. On the Website Foreground Public Page, a Query Dish Function should to be provided. With the number of dishes increasing, customers can search some dish and view related information quickly by using this function.

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