Mess Food Wastage Saver

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Abstract

Mess manager records the details of the students who dine in the mess on daily basis and at the end of the month total expenses is calculated. Also if student is not available and food is ready it will cause the food waste. The method of maintaining paper- based records is not feasible. The idea of the paper is providing an automated way for recording student attendance at accurate solution which saves time too. This paper presents detailed information on the Mess Management System. The main aim of the mess is to provide clean and fresh food to the students/employees of the organization. Also not to waste food by taking care of attendance of students. It will be easy to handle that app make sin android application. 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.

Keywords: Food waste management, online attendance, menu.

I.   INTRODUCTION

Automated mess management system is really helpful for top level management as well as boarders in making decisions at different levels. Some of the academic institution which has mess facility are running their mess with manual process. To eliminate manual mistakes and time consumption the mess management application serves a better way. The accountability in all aspects is achieved through automated application which is not so accurate in manual system. Mess management application is engaged in providing up to date information about the details of mess boarders. It includes option such as adding, deleting information about the students and menu items. The delete option is applicable to a single record or multiple. It also has facility to add schedule of timing for mess opening and closing.

This project deals with the technological aspect in solving the problem of food wastage in college mess/canteen at individual level. The concept can be implemented by provoke students to save food and therefore save money. the areas which we want to target are "students budget" and management for food preparation quantity on daily basis. This approach wanders around the reverse psychology of the students skipping the food. If they skip the food, its negative impact is being created on their budget as well as in food. this topic is to design a notification system using Android application to connect the mess admin and the person who wants food from mess. it achieves high and quick organize between the person and admin for save food.

The main aim of the mess is to provide clean and fresh food to the students/employees of the organization. In Today 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 college hostel or in general to any institute maintaining a mess. provides all the day menu for the particular day so that person can decide whether to order it

from mess or not and hence can give its decision through the application. It will send the notification to the admin as well as the person who cook the food.

II.LITERATURE SURVEY

Ankita Chawla, Priyanka Joshi, Sanjana Panjwani, Surbhi Sontakke, discussed about the importance of automation of mess management system. The authors illustrated the procedure through use case diagram and flow chart. The paper has expressed the advantages like time consuming, man power reduction and also manual mistakes. Thus they explained the automated mess management in broad sense which helps in giving an idea for writing this paper. This paper has used the proposed steps and identified other steps in the process.

B Muniraja, J Rajanikanth, discussed about the canteen facility provided in various campus. The paper has quoted drawback in the payment process. In it, usually cash or credit card transactions are carried which has serious drawback. Sometimes the canteen owner records the order details on paper and bill calculation will be at the end of the month. The authors explained the process of payment with recharge card through post-paid or prepaid facility.

B Muniraja, J Rajanikanth, demons treated the procedure of payment process in the canteens through RIFD cards. This eliminates the cash carry. The paper explained the drawbacks f existing system and proposed features and RTC (Real Time Clock) architecture components. It has the information about the PIR (Passive Infrared) sensor working.
    Salman Beg, discussed the factors which have influenced the transformation in technology advancement, professionalism as important resources. A computer based environment is suitable to calculate the statement of bills. Separate database is very much important to maintain the files with authorized   validation.

Shows that with good management and marketing practices, a canteen can provide healthy foods and also be financially viable. The school canteen is a small business. Like any business, it requires good management practices to be efficient and successful.

III.   PROPOSED SYSTEM
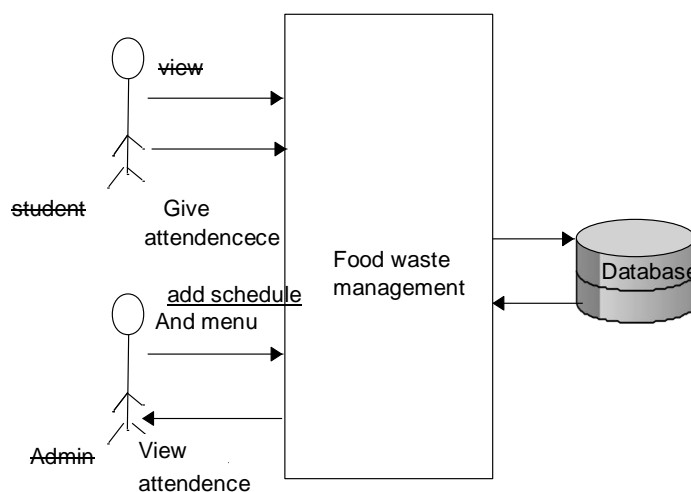
IV.   SYSTEM OVERVIEW

The system will work for food waste management and store system data securely by managing everyone separate record. The proposed system admin will login to system. Admin add schedule of the day for lunch or dinner. He can view student

list and attendance of student. Admin add today's menu on site for student. Student registers to mess and login to system. Student can view today's menu. Student can give attendance to system that he will present for today. That will save food waste of mess. This system uses Levenshtein distance algorithm to match admin entered query with available student's name in database.

V. MATHEMATICAL MODEL

Let us consider S as a system for automatically find best resources.

S= {…… INPUT:

 Identify the inputs

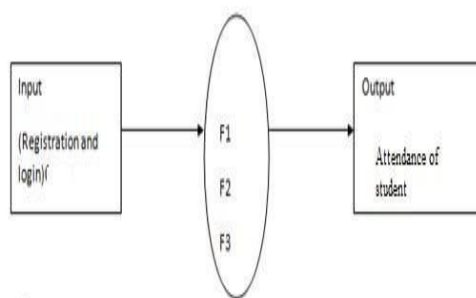F= {f1, f2, f3 …., fn| 'F' as set of functions to execute commands.} I= {i1, i2, i3…|'I' sets of inputs to the function set}

O= {o1, o2, o3…. |'O' Set of outputs from the function sets,} S= {I, F, O}

 I = {Query submitted by the user, i.e. Give attendance}

O = {Output of desired query, i.e. View all stud. attendance}

F = {Functions implemented to get the output, i.e. Food saves}

Mapping diagram:

VI. ALGORITHM

Algorithm: Levenshtein distance algorithm
 For calculating difference between searching query that is student name. It will work for any spelling mistake in student name. It matches entered student name with available all students.
Input:
1. Text string x = Student name
2.Text string y=available all student name3. Distance to match string x with y
Processing: It will find valid distance between two strings
Output: Give result distance is matched with specified   distance in algorithm. Give result match or not matched.

VII. CONCLUSION

 This software will be useful to any school/college hostel or in general to any institute maintaining a mess or canteen. Also, this software will reduce manpower, thus reducing the capital being invested. Thus, a application with added

benefits than the existing ones is created. However, other aspects will be worked upon for better performance and efficiency. It will save food from wasting.

VIII. REFERENCE

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