

Mess Food Wastage Saver

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Abstract : The amount of food waste generated in the country continually increasing, the misuse of food along each stage of the food life cycle has become a serious environmental, social, and financial issue. Huge quantity of food is wasted every day in hotels and mess. In a country, a huge society is deprived of basic amenities and don't get meal for one time, such wastage is intolerable. Now a day, Smartphone's are available at a highly affordable price and are the best way to keep people and agencies connected. Software deals with the technological aspect in solving the problem of food wastage in hostels and mess at individual level. The proposed concept can be implemented by hostel in their mess to provoke students to save food and therefore save money. From the students point of view the function has to be kept very simple and elective. The management end should also be very easy to access.

Keywords: Food wastage, Save food, Food donation.

I. INTRODUCTION

In the country where demand for food is more and wastage is increasing rapidly, more food wastage is done in mess and hostels. To overcome the problem of food wastage a system is developed. The system will help the mess management to track the attendance of students using RFID that will help the mess management to reduce the food wastage. Analysis of monthly attendance will help to estimate raw food required to prepare the meal. Even if the food is left over then the mess will be provided with the Contacts of the NGO's. In this system android application will be used to select the meals for Breakfast, Lunch and Dinner. Buttons for selecting the meal will be provided priorly. Students who have registered for meal have to be present for meal and if the student is not present at the mess for meal then the student will have to pay penalty. This process will start with the registration of the student who wants to join the mess food category. There will be two ways for registration One for the student and the other for the admin(the mess administrator). When the student will register and then login the application, it will show only the details required for the student.

II. SURVEY

2.1. Solution food wastage save management at College Mess/Canteen by - abhishek -bhushan.

This paper [1] proposes that Social media is a place where people can share all the happenings in their life etc. By this prediction we will predict the mood, relationships of the person by all the information he has written in Twitter. The method by which a user's personality can be accurately predicted is mentioned. The description of the type of data collected, our methods of analysis, and the machine learning techniques that allow us to successfully predict personality is made. The discussion on the implications this has for social media design, interface design and broader domains.

2.2. Waste to wealth A novel approach for food waste management Jayalakshmi Department of ECE, Sengunthar Engineering College, Tiruchengode

Food wastage is a huge problem arising in today's world.[2] It has become a serious issue in our society in the last years that acts poor and rich countries equally and according to the Food and Agriculture Organization (FAO) almost half of all produced food will never be consumed. By wasting food we also waste the time and energy that we have used to produce the food and as well our natural resources and the limited available agricultural land will be used up which could be handled in a much better and sustainable way. Additionally, waste has a strong financial impact and acts the environment including the overall greenhouse gas emission.

2.3. Reducing food wastage at IIT mandi by Ashish Arya and Ryan Cooney

The main aim of this project was to research mess hall food waste at IIT Mandi and provide solutions to reduce food waste. To achieve less wastage of food, team completed a study focusing on all points of the process of food preparation and consumption at IIT Mandi. [3], Team determined the wasted of food at each point, as well as the systematic and human causes of food waste. Based on data and understanding of food waste at IIT Mandi, team developed and proposed specific methods to reduce food waste. To complete this mission, at each point of the process of food preparation and consumption at IIT Mandi, Methodology used:

- Determined the magnitude of food wasted
- Explored why food is wasted
- Developed methods to reduce food waste

2.4.FOOD WASTAGE IN HOSTEL MESSES by Yash Kumar, Lalith, Bharathi Kannan, Lakshya Mundra

Food wastage is frequently a result of unwittingly taking more food in your plate than required. The measure of food goes mostly high in places with a large gathering and where there is boundless supply of food like a hostel mess. We can cut down food wastage significantly if a framework is made which enhances the propensities for hostellers, making them conscious and disciplined with the goal that they don'ts quander food .IOT Based Smart Garbage and Waste Collection bins (SGWC). Our paper idea is based on creating a social awareness to reduce food wastage through measuring and displaying the amount of food wasted and recycling the wasted food using embedded systems. The Food waste disposal machine (FWDM) used here recycles the wasted food to make fertilizer at planting.

III. EXISTING SYSTEM

Hostel facilities in educational institutions are managed with manual paperwork in a labor-intensive environment. This has resulted in poor resource utilization and impacted the overall efficiency of the academic institutions. The system of managing and administering hostels.

Problems are:

1. Manual hostel administration
2. Manual allocation of facilities
3. Tedious and time consuming work. In-accuracy of data.

IV. PROPOSED SYSTEM

This webpage is to calculate the raw material for the food preparation in hostel mess and reduce the food wastage. Weekly and Monthly summary can be generated for the mess admin to calculate required material for each meal. This is the easy way to save food. We are making this software to calculate the raw material for the food preparation in hostel mess and reduce the wastage of food.

4.1. Implementation

- Registration:
 - i. Firstly students have to register with their id.
 - ii. Admin have to register to see registered students data.
- Login:
 - i. Student login: After registration, Students have to do login. After login students have to select their meal. After selection of meal data will be sent to the mess.
 - ii. Admin login: Admin will get the data of students who have done the login. Admin will also be able to get the attendance of students who have done login.
- RFID:
 - i. RFID will help to mark the attendance of the present students.
 - ii. If the student has marked his attendance in the app, but he did not attend the meal then he will have to pay penalty.
 - iii. If the student has not marked his attendance in the app and also did not come for the meal then the refund will be given at the end of the month.
 - iv. Mess management will provide the information to the NGO, if any wastage has occurred then that food will be given to the NGO's.

V. CONCLUSION

This system will help mess management to calculate the raw food. Weekly and Monthly summary can be generated for the mess admin to calculate required material for each meal. Easy to save food wastage. We are making this software to calculate the raw material for the food preparation in hostel mess and reduce the wastage of food.

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