

Detection and Prevention of Food Wastage by Tracking Real-Time Data through Mobile Application

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ABSTRACT

According to sources, 25 to 40 percent of food products are wasted in the world. There is something that we still don't see: food wasted by restaurants, shops or industries. There is also something we can see: food wasted by ourselves. This is the range focus of communities, through the management of wasted products of catering firms. Now a days people are aware of importance of food but there are no platform to share information about the excess of food available in the particular restaurant, shops and even in our homes for non-profitable organizations to offer food to the needy. We propose an android application in which the registered user can post the extra available food in their community for other users to come and get use of it by taking the extra food to the people in need.

KEYWORDS: *Android real time application, malnutrition, non-profit organization, food wastage, industries, fresh food enterprise Naïve Bayes algorithm, over abundance, poverty stricken*

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INTRODUCTION

People know about significance of food however there are no stage to share data about the overabundance of sustenance accessible in the specific eateries, shops and even in our homes for non productive associations to offer sustenance to the penniless. Individuals think about essentialness of nourishment anyway there are no phase to share information about the excess of sustenance open in the particular restaurants, shops and even in our homes for non gainful relationship to offer sustenance to the poverty stricken. The lack of awareness around the issue and unrelated issues, such as malnutrition, povert and food shortage, is minimal and hence a small contributor to the larger picture of food waste and the aforesaid issues. But food waste alone incurs huge monetary loses to industries and mankind in general.

Food waste primarily revolves around any form of food, raw or cooked, used or unused-discarded or intended so. Professional bodies and governments alike, further diversify the definitions to various categories and implications such as the kind of food waste, the form it is produced or generated by and materials and source of waste. The non-profit organizations and other welfare organizations wait till someone come and offers extra food. We propose an android application in which the registered user can post the extra available food in their community for other users to come and get use of it by taking extra food to the people in need. First, the new user needs to sign up and then only, the user

can view the updates from other user about the available food in the specific restaurant or shop.

RELATED WORKS:

1. Design and Analysis of Grid Connected Biomass System Utilizing Chittagong Municipal Food Waste

Author name: Kazi Meharajul Kabir, Mahmud Abdul Matin Bhuiyan, Md. Sarwar Uddin Chowdhury, Riku Chowdhury.

2017: An agricultural country like Bangladesh is facing insufficient electricity production system. All of the expert bodies are trying to upgrade our electricity production system also trying to create various scopes for producing electricity. Therefore, we are offering a grid connected food wastage based biomass power plant because we have a lot of wastage and maximum of the wastage are vegetables and foods. We proposed renewable energy based power plant because it is environment friendly with less emission of carbon about 2% as well as others conventional power plant. For design and analysis, we have chosen Chittagong City Corporation because there are lot of food wastage in Chittagong. Also, the system is connected to national grid for upgrading our nation.

2. Food Nanotechnology and Nano Food Safety Author name: Hongwu Bai, Xianjin Liu

2015: Nanotechnology, as a new science and technology, has been used in various fields of society. Application of

nanotechnology in foods has been greatly developed nowadays, in order to improve the absorption rate of functional ingredients and nutrition supplements in the human body. But its direct or indirect impact on human health is still controversial. This paper reviews the research of Nano food in and out of China, focusing on nanotechnology and Nano materials in food processing, food packaging, food machinery, food detection and food traceability. The safety evaluation of Nano food and the development trend of Nano technology are also presented. According the potential risk in food industry, the strict norms and standards of Nano food are needed in China and other countries.

3. Waste to Wealth- A Novel Approach for Food Waste Management

Author name: K. Jayalakshmi S.Pavithra C. Aarthi

2017: Food wastage is a huge problem arising in today's world. It has become a serious issue in our society in the last years that affects "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 affects the environment including the overall greenhouse gas emission. To avoid all such situations we are going to implement 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.

4. An Automated Food Wastage Tracking System for Dormitory Student's Mess

Author name: Varsha Jain

2016: eBin is a social persuasive system to motivate reflection and behavioral change in the food waste and recycling habits of young adults, especially in dormitory student's mess scenario for developing and underdeveloped countries. This paper provides a new automated measuring and accounting system, which helps discover trends in food wastage by correlating the food wastage with various other parameters like number of people generating that food, day of week and time of day. Another part of this system presents useful insights from the data we collect to the students eating in the mess, so as to encourage a change in their behavior. This part consists of an LED display that presents the gross food waste that has been generated, associated cost of the food being dumped and an online portal wherein people can get more detailed information using easy to understand graphs and charts.

PROPOSED SYSTEM:

We propose an android application in which the registered user can post the extra available food in their community for other users to come and get use of it by taking extra food to the people in need. First, the new user needs to sign up and then only, the user can view the updates from other user

about the available food in the specific restaurant or shop. People know about significance of food however there are no stage to share data about the

5. Food Waste - A Global Challenge to Sustainability

Author name: Padmaja Vootla, Fadhel Al Remeithi

2015: Acting on the food wastage, can be considered to be having a significant impact on achieving the sustainability goals and can also be a vital auxiliary measure to counteract the imbalance in the global food availability and distribution. This paper tries to summarize from the available data, the global, the national and the community level food wastage scenarios. With a focus on the food wastage due to 'over consumption' as one of the high potential source for reduction and the behavioral aspects and habits as obstacles to the goal of sustainability, describes a study conducted by students in a local community to identify and quantify the avoidable food waste at consumer level and proposes that awareness of sustainable living patterns as a super ordinate goal.

overabundance of sustenance accessible in the specific eateries, shops and even in our homes for non-productive associations to offer sustenance to the penniless. We propose an android application in which the enlisted client can post the additional accessible nourishment in their locale for different clients to come and get utilization of it by taking the additional sustenance to the general population in need.

CONCLUSION:

The proposed android application can make the non-profitable organization to easily access the available food for the people in need and also this application is the need of the hour for preventing the food wastage.

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