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Review of Kisan Krushi Marketing using Wireless Technology

Shrenik S. Sarade[1], Neha R. Lakade[2], Shubhangi S. Sargar[3], Dhanashree P. Babar[4]

[1,2,3,4]Electronics & Telecommunication Department of AITRC, Vita, Shivaji University, Kolhapur

Abstract: Indian people mostly dependent on agricultural. Most of the peoples in India are farmers. Every day peoples uses the vegetables in meals. So daily consumption of vegetables item in meals are high and increase every day, they are very essential in human diet. Therefore, the cultivation of vegetables is generally take place in mostly in villages. so, because of that the vegetables requirement in city is increases day by day, so that this is government responsibility to supply the fresh vegetables immediately from market. Vegetable cultivation has take place where irrigation facilities are available, For that purpose required transport and communication facilities. This is because growing Vegetable crops are more profitable than any other seasonal crop particularly the food grain crop. India is the second largest producer of fruits and vegetables in the world next only to China and accounts for about 16% of the world's production of vegetables and 10% of world's fruits production. In India total area and production growth of fruits and vegetables was 2.6 per cent and 3.6 per cent respectively in the period 1991-2005 Annually. India Share the fruits and vegetables production exports in world increased over years from 9.5 per cent to 16.5 per cent in 1980-81 to 2002-03. But India are still lagging behind in exports of these fruits and vegetables production.
The vegetable fertility of Maharashtra is good but the marketing of these vegetables are not that much of effective for the farmers. The main reason behind this is the lack of information regarding the market situation, market ratting of the vegetables. Because of this problem farmer has to sell their vegetables at minimum rates. And consequently this led to the loss of the farmer. Now a day on Television vegetables rates are shown of the vegetables. But because of lack of time the farmer cannot utilize this. To over come this problem we have this project that is kisan market krushiking using gsm module. In this project we collect the data of market rates from the bajarsamiti from maharastra, and this data is provided to the farmer via message to the farmer and also display in the grampanchayat.
Keywords— Microcontroller, GSM module, Solar Panel, Mobile Application

I. INTRODUCTION

India is the second largest producer of fruits and vegetables in the world next only to China and accounts for about 16% of the world's production of vegetables and 10% of world's fruits production. India exports fruits and vegetables to world, but this is not beneficial to farmers. The agencies of fruits and vegetables market are takes the production of fruits and vegetables in less price & sell in higher price in world market. Hence, Indian farmer are in losses of money.

To over come this problem we have this project that is kisan market krushiking using gsm module. In this project we collect the data of market rates from the bajarsamiti from maharastra, and this data is provided to the farmer via message to the farmer and also display in the grampanchayat

Kisan krushi Marketting using Wireless Technology is a project that will be benificial for the farmers.the data collected from the bajar samitee is entered into the mobile app and send to the GSM system.The controller kit will save this data in EEPROM and display the data on display board and send to the farmers mobile number. A solar pannel is used for the power supply.

II. LITERATURE SURVEY

Following paper are used for this project

A. AMR System with Instant Billing by using GSM

In this work existing meter reading techniques in India are analysed and conducted an extensive study on different energy measuring instruments available now. In this system an electronic or an electro-mechanical meter is used for measuring the energy. This meters only recording kWh units. Demands of energy is increases yearly, hence we required the automation in energy distribution. For Traditional meter requires human operator for take reading of energy meter. But, Automatic Meter Reading (AMR) systems which records the meter readings electronically, and its application is increasing over industrial, commercial and utility environment, "Kuala Lumpur, MALAYSIA, May 24-26, 2016. This paper presented in Satellite Conference ICSTSD 2016

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International Conference on Science and Technology for Sustainable Development".

B. Mobile Application

Development of mobile applications has generated more interest among the independent and freelance developers. The mobile application increasing day by day in various application and having market rate is seen to reach $9 billion by 2011, according to Compass Intelligence1," Kuala Lumpur, MALAYSIA, May 24-26, 2016.GSM Based AMR System With Instant Billing".

C. GSM based Wireless Home Security System

In this work, we present the design and implementation of a GSM based wireless home security system. How take a very less power. This system contains the various parameter for security purpose. Which contains a GSM modem and magnet with relay for door security. This system rapidly detect an intruder & convey this information for alert home owner." Abhishek S. Parab et al, / (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (3) , 2015, 2950-2953".
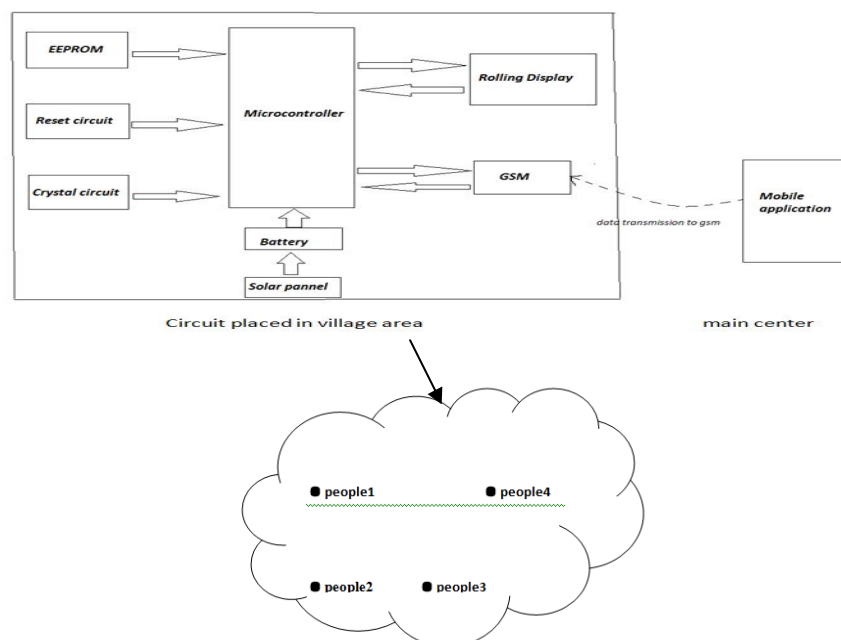
D. Mobile Application

In this paper, we describe the design and implementation details of a mobile application supporting news access and virtual community interactive services, based on open technologies such as Android, Java programming language, Android libraries, MySQL database and an open Web server. The objective of this project is to handle the mobile application easily, interactive, flexible, with a portable Android. This paper presented by "L. Ashwin Kumar. Mobile Application for News and Interactive Services in ARPN Journal of Science and Technology 2010-2012 ARPN Journals."

III.   PROPOSED WORK

The "Kisan Krushi Marketing Using Wireless Technology" is the project which will benefit to the farmers. Initially we take the permission of the Bajarsamiti in Sangli and vita to provide the data of vegetable market rate. This data is to be entered in to the mobile application and these data is send to the GSM which is placed in the village. This data give to the PIC controller and stored the data in EEPROM memory. this data is given to rolling display and sent to the each and every farmer by message how have registered their mobile numbers.

For this purpose we will develop a mobile application which can give this information in the Marathi. The application will be developed in such way that it security code and user name is give. Until the main officer login in to it is locked or cannot be used by other person. Daily Data (vegetable rate) will be enter into the mobile application by the officer. This data given to the main kit.

The data from mobile application is received by the GSM module and stored in EEPROM and send to all mobile numbers of farmers. Also the data will be display on the display board. Thus the daily vegetable rates are known by the farmers by the message send by the GSM.

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A. Mobile Application

The mobile application is designed such that it has user ID and password. In that vegetables names are provided and there daily rates are entered .This data enter by the main employee of bazar samitee. The data send through mobile application to the GSM module placed in village.

B. GSM Module

GSM means global system mobile communication. It is SIM card which have a unique   number from manufacturer of that company .In this project the GSM   will receive data from mobile app and that information is going to store in EEPROM .

C. Rolling Display

In that rolling display the EEPROM sends the data to display board and the data can be display. This display the rate of vegetables at every day. In every day data can updated on rolling display. This data can stored in server A rolling display is a flexible display that can be rolled up into a scroll. Technologies involved in building a rolling display include electronic ink, Gyricon, and OLED. At the CES 2006, Philips showed a rolling display prototype, with a screen capable of retaining an image for several months without electricity. As of 2007 Philips Polymer Vision expected to launch a 5-inch, 320 x 240-pixel rolling display based on E Ink's electrophoretic technology.

D. Solar Panel

Solar panel refers to a panel designed to absorb the sun's rays as a source of energy for generating electricity or heating. A photovoltaic (in short PV) module is a designed by assembly of typically 6×10 size of solar cells. Solar Photovoltaic panels contains the solar array of a photovoltaic system that provides solar electricity in commercial and residential applications. Solar panel provides the energy in its DC output power under standard test conditions (typically ranges from 100 to 365 watts)..

IV.   CONCLUSIONS

The project is going to use for provides the information about vegetables price to farmer from Bajarsamiti, because of that farmer understand what is today rate of vegetables in market. Hence, former avoids loss money.

Kisan krushi Marketting using Wireless Technology is a project that will be benificial for the farmers.the data collected from the bajar samitee is entered into the mobile app and send to the GSM system.The controller kit will save this data in EEPROM and display the data on display board and send to the farmers mobile number.

V.   ACKNOWLEDGMENT

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