International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)
Impact Factor: 5.22 (SJIF-2017), e-ISSN: 2455-2585
Volume 5, Issue 03, March-2019

AUTOMATIC DATA FEEDING OF MID DAY MEAL SCHEME

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ABSTRACT – ***According to current government scheme Government provides food material like lentils, rice etc. to ZP schools for mid day meal. In this scheme teachers have to fill data about all daily material used for making mid day meal, on the government website. It leads to waste lot of time for daily feeding of data. Even sometimes it leads to corruption in received material from government.***
We are going to develop a automatic data feeding system so as to save teachers time and corruption too .We are going to store the received material in such a way that according to daily expense all the details are automatically fed to respective website without any manual efforts. We are also going to develop a website for demonstration, so it will become hardware and software project.

KEYWORDS- Wi-Fi Module, Container, Microcontroller, Strain gauge, Keypad.

1.INTRODUCTION

Government provides food material to all ZP schools for mid day meal. According to this scheme teachers have to manually measure the material required for daily use, and the detailed quantity of this material should be filled online on the Government website. It is very time consuming process and accuracy is also less.
In our system we are going to design a system such that, we are going to keep the material in a containers and through the keypad we are going to enter the amount of material required for daily use and according to the entered amount the material come out from the container, another container in which the material is collected is provided with the strain gauge for weight measurement purpose. This measured weight is going to update automatically on the website through the wi-fi module

LITERATURE SURVEY-

A visit at some ZP schools to know how exactly this Mid day scheme works. And according to our survey we found that teachers find this process very difficult because manually measured quantity of material is not accurate and even while uploading data on the Government website they need to spend lot of time on this work. It also distracts the teachers from their main job of teaching, so its better to done this all process automatically so as to accuracy in the work is obtained and as everything is done automatically it also saves the time of teachers which time is then utilized for the teaching purpose.

HARDWARE INTERFACE:

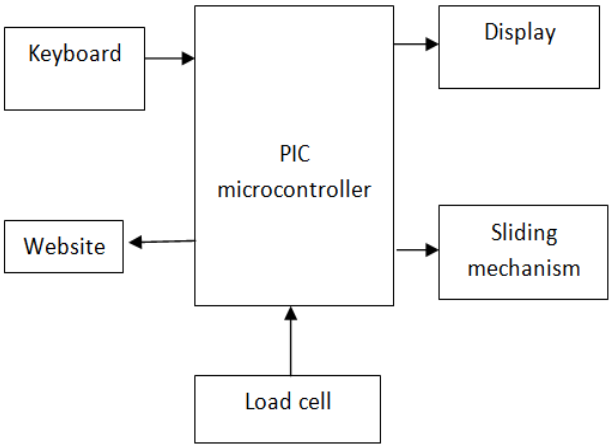
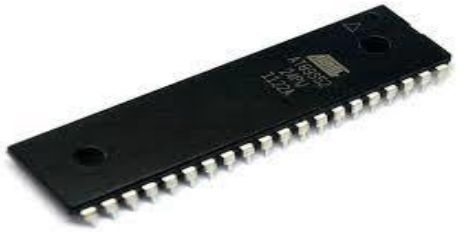


Figure 2: Block Diagram
Block diagram of project system

HARDWARE DISCRIPTION:-

1. **PIC Controller :-** The PIC microcontroller is one of the most renowned microcontroller in the industry.This controller is incredibly convenient to use, the coding or programming of this controller is also easier.One of the most blessings is that it may be write-erase as again and again as doable as a result of it use non-volatile storage technology.



2. **load cell-** load cell could be a electrical device that's wont to produce AN electrical signal whose magnitude is directly proportional to the force being measured.
The various load cell varieties embrace hydraulic, pneumatic, and strain gauge.

3**.Keyboard** :- The 4*4 matrix computer keyboard sometimes is employed as input during a project.It has sixteen keys in total, which suggests a similar input values.The Sun 4*4 Matrix Keypad Module is a matrix non- encoded keypad consisting of 16 keys in parallel. The keys of each row and column are connected through the pins outside – pin Y1-Y4 as labeled beside control the rows, when X1-X4, the columns.

4. **Display** :- Display case, also termed showcase or display cabinet, used to display objects for viewing. Display window typically during a search to show things available or attract customers

5. **Stepper Motor** :- A stepper motor is in addition a brush less DC motor that divides a full rotation into kind of equal steps. The Brushed DC motors rotate continuously when C voltage is applied to their terminals. The stepper motor is thought by its property to convert a train of input pulse (generally sq. wave pulses) into a exactly outlined increment in an exceedingly shaft position

6. **Website :-** It is a set of webpage that are joined together. People cross-check websites with a laptop of some kind, sometimes including the computer inside mobile telephones and televisions.The internetsites square measure unbroken on computers referred to as web servers.

LOGIC DIAGRAM AND WORKING-

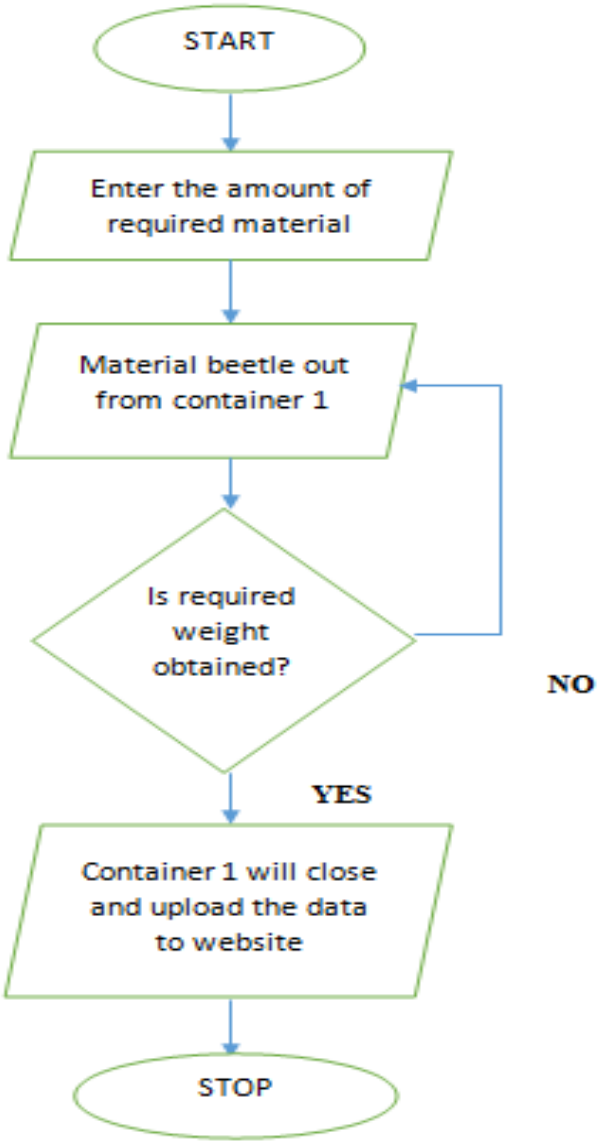


Figure 1: Flow chart of system

HARDWARE SYSTEM

RESULT

At first the user is going to select the food material as a input between the options given below on the LCD screen using keyboard.

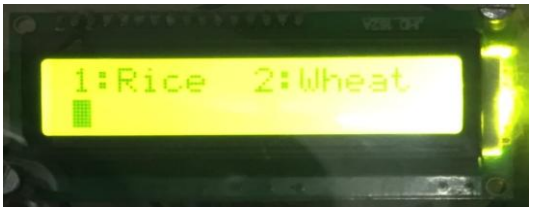


Figure 1

After selecting the input enter the amount of material required in grams or kilograms.

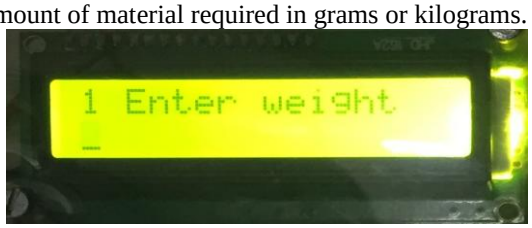


Figure 2

After entering the weight the motors which are attached to the container are opens up and food material is dropped out from the container.

This material drops in another container which is kept on the strain gauge for measurement purpose. As soon as the weight in second container reaches the required level the motor gets closed automatically and ‘done’ message is displayed on the screen.

Figure 3

And then the details of food material used for mid day meal is automatically fed to respective website without any manual efforts.

FUTURE SCOPE:-

In the large scale milk industries it is used to keep daily records of transport of milk.In oil refineries daily storage of oil is automatically fed to the respective corporation website.

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