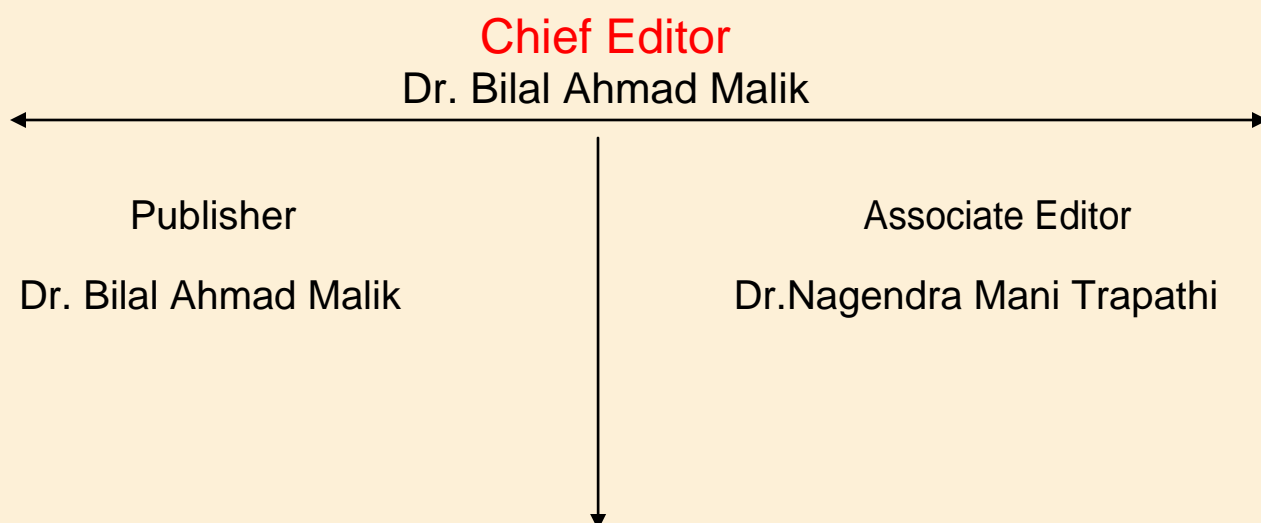


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MEDICINE VENDING MACHINE

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ABSTRACT:

The medicine vending machine is specially designed for the diagnosis cases and emergency relief solution. This machine can spatially use at hospital, bus stop, colleges, society, highway etc. To make digitization society this machine is very helpful. The medicine vending machine is like any time medicine where medicine can withdraw any time, and anywhere. This machine also can use in villages to emergency relief. It is very easy to use therefore it can operate at in rural area.

Keywords-Vending

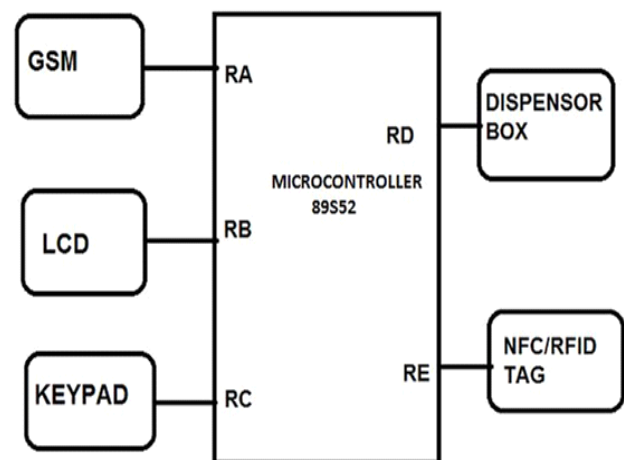
1. INTRODUCTION

Now-a-days in the fast moving world, appliances which are going completely automatic. This is the biggest advantage of this project. The system is fully controlled by the 16 bit micro controller 89S52 And Ic L293D is the motor driving Ic. Because using microcontroller the LCD is use for display the available tablet and Keypad is use for select the tablet. Therefore this machine is very easy to use in the rural area. This machine is safe use in society and colony also because of using the smart

card .Because of the smart card account safety is occur and it is use like a ATM machine. Automatic vending machine has many uses for example, collage, bus stop, public area, railway station, highway, colony, hospital etc.

Because of the GSM is use in the project therefore online recharge can be possible. Because of this technology the crowd of the medical storage will reduce. This machine will biggest part for digitization. This machine is use for the primary emergency relief solution like headache, body-pain, vomit, fever, cold, diarrhoea etc.

2. BASIC BLOCK DIAGRAM

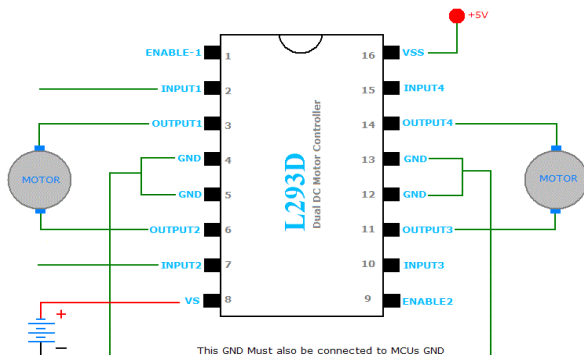


A. Microcontroller:

In this project we use AT89S52 is a low-power, high-performance CMOS 8-bit microcontroller with 8K bytes of in-system programmable Flash memory. The IC is manufactured using Atmel's high-density nonvolatile memory technology and is compatible with the industry-standard 80C51 instruction set and pinout.

B. Motor driving IC L293D:

L293D is a typical motor driver or motor IC which allows DC motor to drive on either direction. L293D is a 16 pin IC which can control a step of two DC motors simultaneously in any direction. It means that you can control two DC motor with a single L293D IC.



E	Input1	Input2	Output
1	0	0	STOP
1	0	1	CLK
1	1	0	CCLK
1	1	1	STOP

C.GSM:

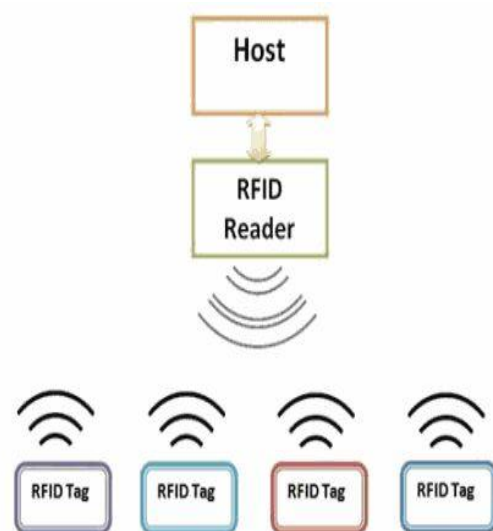
In project use GSM which is standard telephony system that is widely used. It describes the protocol for 2G digital network used by mobile phones.

D. Dispenser box:

It is made up of number of drawers which stored the medicine and drawer moves with the help of stepper motor. In drawer spring mechanism is used to come medicine strips forward therefore it very easy to buy a medicine for a customer and it is safe.

E. RFID:

Uses electromagnetic field to automatically identify and track tags attached to objects. The tags contain electronically stored information. Passive tags collect energy from a nearby RFID reader's interrogating radio waves.



4. FUTURE SCOPE:

This study focuses on the design and implementation of A NFC Operated MEDICINE Vending Machine that can dispense different medicine through dropping a specified Medicine by taking the reference of keypad. There are different types of medicines in a machine. The machine accepts money through RFID tag and will not accept any other type of money. Once the tag has been detected, the machine automatically dispenses the right medicine. The automatic medicine vending Machine will cater the needs of the customers with no further human intervention required. The machine is user-friendly and is very simple to operate. The customers will only have to deal with the NFC tag to be dropped to the machine which will correspond to the medicine to be dispensed. With this, labor cost will be minimized and it will also give entrepreneurs the opportunity to attract more customers with this innovation.

5. CONCLUSION:

From this concept we are conclude that, the automatic medicine vending machine is technically feasible to the peo- ples. It is based in PIC micro-controller provide GSM service. It gives availability of medicines all the time, also in rural ar- eas. it is very helpful. It gives ease of access also. It is sales person-less service which is based on smart card.

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