

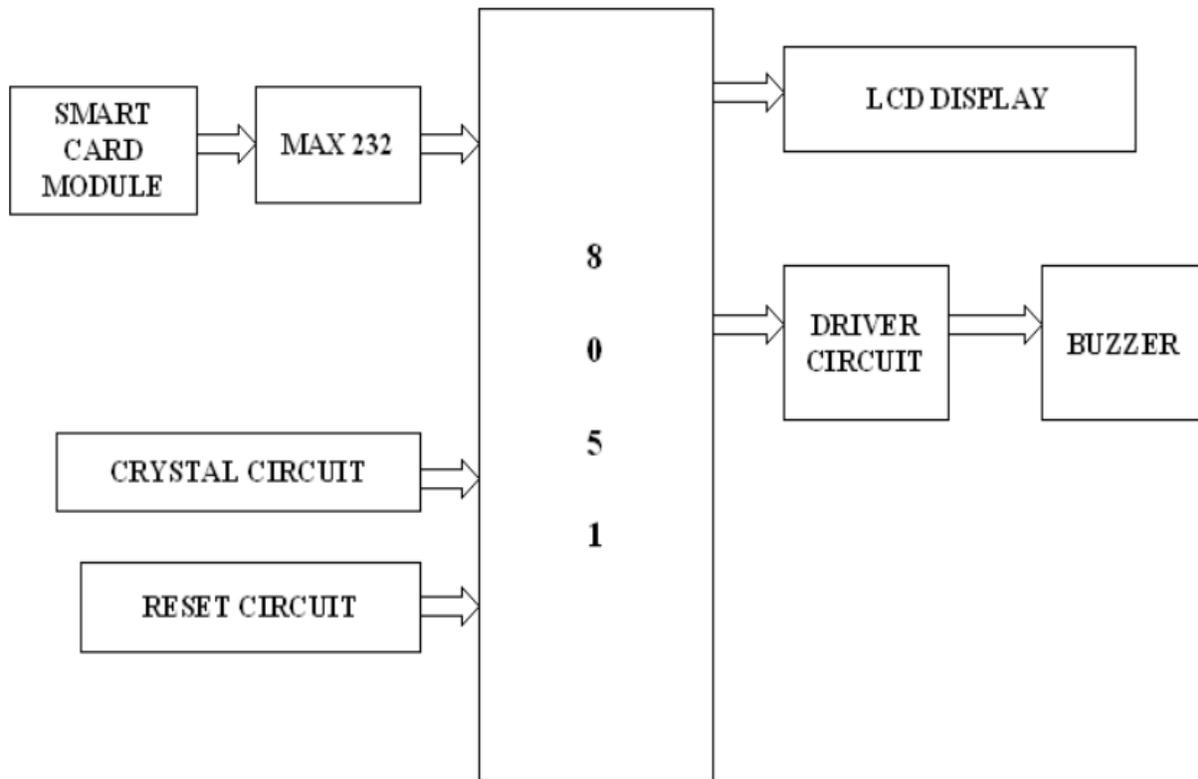
SMART MEDICAL CARD

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Abstract

Most of the people, aging around 35 to 45, suffer from few regular problems like arthritis, diabetes, blood pressure etc. These people have to go to the concerned specialists for regular check ups to maintain their health properly. The doctors advise the patients with necessary things to follow and also prescribe with medicines if necessary. The doctor maintains a record of the patient and also suggests the same to the patient. In this process, they provide prescriptions to the patients so as to bring along with them in their next visit. Whenever the patient goes to the doctor for his/her check up, the doctor initially observes the prescription having the details of the patient's health record and then performs the basic tests like the pulse rate, body temperature of the patient, weight etc. There may be chances that the patient may lose the prescription while going to the doctor. Thus, the doctor has to perform the tests once again on the patient to get the overall idea of the patient's health. And also, most of the people nowadays prefer cards for every thing rather than carrying records, cash with them. Thus, in order to avoid this, we have developed a project called Hospital Management System using Smart card. The patient will be provided with a health card when he visits to the doctor for the first time. The health conditions of the patient will be tested and all these details will be saved into his/her health card. When the patient comes to the doctor for his/her review, the patient has to insert the health card into the smart card reader present at the doctor. The parameters pertaining to the patient's health will be displayed on the LCD. Thus, the doctor after having a glance on these details will perform the tests once again if necessary and these values will be updated into the health card for the next review to the doctor. LCD is used to display the health parameters of the patient. For the audio indication, a buzzer is interfaced with the controlling unit. Whenever the user inserts the card into the reader, the buzzer will be activated and gives an audio indication.



INTRODUCTION

Our project " Smart Medical Card " is a project in which we are planning to help people in managing their health information and making the process of carrying all previous medical documents and prescriptions while visiting a doctor easier by the use of RFID Card and IOT. By Using this Smart Card doctors can anytime see the medical details of the card holder like what were the previous reports of the person and what were the medicines which were prescribed to that

person.

PROJECT BENEFITS

i) The amount of the people who will use it will increase as it's very easy to take a card rather than having n number of documents with them.

ii) This project is beneficial for the doctors as well as the medical staff as during the time of this pandemic where everyone think many times before touching anything so we are making their work easier as after this card, they don't have to touch all the documents, other than that they just have to scan the card and all the medical information, medical history and prescriptions can be accessed. This will reduce the Medical staff's risk as well.

PROJECT SCOPE

The scopes of this project are:

- Provide the service to as many peoples as it will reduce their tension as well because they don't have to carry anything else other than that RFID Card.
 - Work of Doctors as well as the medical staff can also be made easier as now they just have to scan the card and the whole medical information of the patient can be seen including the medical reports, prescriptions.
 - This project can be considered most useful for the persons who have short term memory loss as all the details of the patients is stored in that card. So they don't need to take tension regarding that.
- PROBLEM STATEMENT** We found this problem when we were visiting one of our friend as he was admitted in a hospital. While waiting for him, We saw that a old lady was struggling with the medical reports as her husband was admitted and there was no one to look after her and she wasn't able to understand that as she was in panic. We helped her over there and after that while waiting, we got an idea that why not make a project for overcoming that problem as that might be considered useful in future as the user can go hassle free for documents and prescriptions as that data is stored on the server and what they have to carry is a card. Project might be considered useful as it'll also reduce the risk of medical staff.

OBJECTIVE

I) The main objective of this project is that people can go to consult any doctor hassle free as there's no need of taking the bag of previous medical reports and prescriptions as the card contains all that details regarding that.

ii) Risk of Doctors can be lowered for looking for various documents and asking patients again and again for every document as now doctor can see every document and prescriptions on a single click.

LIMITATIONS (Have To Edit)

i) Internet is required as without internet we can't upload any information.

ii) Location is required as without that nothing can be done.

FUTURE ENHANCEMENTS (Have To Edit)

Can be an Enhanced Digital Version Of Govt.

Provided Ayushman Card.

PROPOSED SYSTEM

The proposed system is "Smart Medical Card". Here we are providing a card with RFID which contains the data stored on the server and the data of that only patient can be accessed by scanning that RFID Card. What we are doing is that we are giving access to upload medical reports and prescriptions to the users so that they can put it on the server and it can be called anytime when the hospital staff scans the card the details of that particular patient can be seen on a

single click.

CONCLUSION

This is to conclude that the project that we undertook was worked upon with a sincere effort. Most of the requirements have been fulfilled up to the mark and the requirements which have been remaining, can be completed with a short extension. This project will satisfy the requirements of the people as well as Doctors so that all of them will be hassle free.

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