

# ATM TRANSACTION WITHOUT DEBIT CARD

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**ABSTRACT:** Today, most of the systems are automated in order to face new challenges and present day requirements to achieve good results. Automated Systems have less manual operations, so that flexibility, reliabilities are high and accurate. Hence every field prefers automated control systems, especially in field of electronics.

The goal of the project is to develop unique system through GSM technology which controls various units of the houses, industries, and also provides a security system .the various appliances can be utilized by managing them remotely by using GSM Technology, which enables the user to remotely control the operations of the appliance just by pressing keypad the user can perform ON/OFF operations on the appliances.

This system is designed to carry out ATM transactions without the use of debit card. The structure of ATM transaction without using debit card contains a matrix keypad ,a GSM modem, an IVRS, dtmf decoder for security dial up interfaced to the microcontroller(ARM 7).The keypad interfaced to the controller is used as the password entry system.

**Keywords:** ATM (Automated Teller Machine), ARM(Advanced Risc Machine),GSM(Global System for Mobile Communications)

## I. INTRODUCTION:

Security is prime concern in our day-to-day life. Everyone wants to be as much as secure as to be possible. An access control systems forms a vital link in a security chain. The micro controller based digital lock presented here is an access control system that allows only authorized persons to access a restricted area. This system is best suitable for corporate offices, ATMs and home security.

The system consists of an ARM microcontroller, GSM module, DTMF decoder and an IVRS system. Here, the person in ATM has to two options with him. One is with debit card and another is without debit card. After selecting without debit card the machine asks for the secondary password and the name of the card holder. The machine searches the password in the database from IVRS machine. If the password doesn't match then the transaction is cancelled. If the password is correct, a call is generated to the user. The user is asked to enter the primary password and the amount to be withdrawn. Thus the transaction takes place. The basic motivation for our project is to help the user financially in case of emergency. Although ATMs were originally developed as just cash dispensers, they have evolved to include many other bank-related functions

## METHODOLOGY:

### 1)POWER SUPPLY:

The basic step in the designing of any system is to design the power supply required for that system. Figure 4.6 shows the circuit diagram of power supply. The steps involved in the designing of the power supply are as follows,

- 1) Determine the total current that the system sinks from the supply.
- 2) Determine the voltage rating required for the different components..

### 2)LCD-KEYPAD CIRCUIT:-

LCD has 2 Power Sources

- 1) VCC and GND are at 1 and 2 NO. Pins of LCD. Used to drive the LCD 3mA current consumption.
- 2) VCC and GND are at 15 and 16 NO. Pins of LCD used to drive the backlight of LCD 100 mA current

### 3)MAIN CIRCUIT:-

In main circuit simulation,the parameters are arranged combinedly namely, power supply ,LCD-keypad & voice playback IC.here all are integrated on one commom platform of proteus which gives one combined result.the proteus simulations are evaluated & they are built on common platform of hardware circuit.the following fig. illustrates The combined system i.e.main circuit.

#### 4) SOFTWARE SELECTION:

To design the above explained system following software are required.

- A. Proteus
- B. ALTIUM DESIGNER
- C. Keil Software
- D. Keil Uvision2

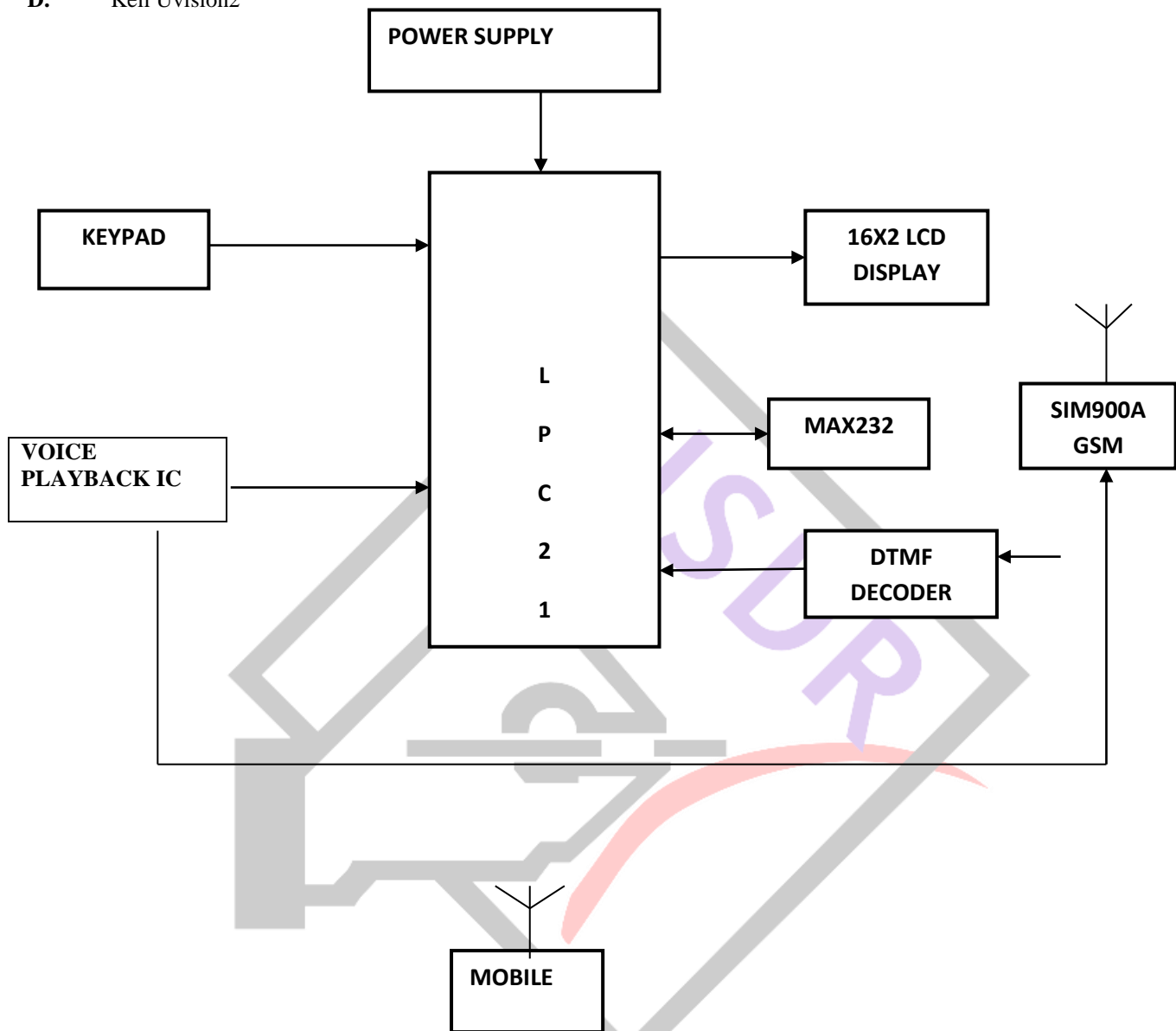


Fig:Block Diagram

#### I. APPLICATION

- Printing Bank Statement.
- Purchasing
- Money Can Withdraw Anywhere Without Debit Card.

#### II. CONCLUSION

The system performs ATM transaction without the debit card effectively. The database entered by user's relative is accepted and stored in microcontroller. A call is then generated to the user and database is taken from him. This database is then matched with user's relative database. If the database matches transaction takes place successfully. If in case the required database differs due to some reason, the transaction terminates and thus safe transaction is accomplished without any dispute.

### III. RESULT

Easily Withdraw Cash Without ATM Card.

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