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Fake Voter Authentication

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Abstract:- As we know now a days the voting system is getting most complicated only because of the person's identity. Because they only have the voting card as a proof of identification so there are lots of chances of fake voting. To avoid this problem we are developing this project which will store the identity of the voters using RFID tag and Biometric sensor. Both RFID tag and Biometric sensor are used for authentication purpose. The biometric system will capture the finger print of the voter and match with the existing finger prints which is stored in data base. After the confirmation of valid voter, the voter is allowed to give the voting. After voting the result is declare on same day.

I. INTRODUCTION

A biometrics is a behavioural or physiological characteristic of a human being that can differentiate one individual from another and that theoretically can be used for identification or verification of identity. It is much secured than any ID or password. ID or Password can be stolen but biometric features cannot be stolen or person based on the person's unique physical or behavioural traits, such as a fingerprint.

II. SYSTEM MODEL

This is developed by using biometric system and PIC controller. In this scenario a voter swipes a RFID tag if the no. is matched with data base then it will go for second step. In second step the voter enters at biometric machine where his/her fingerprint is scanned. After scanning of finger print and RFID no, this result is matched with database which is store in memory. If information is matched with database then and then only EVM machine will start by relay driver for Voting, if the voter is not authenticate at that time machine will not be on. LCD display is used for showing the number of users. The Internet of Things is used for declaring result after voting by using android app.

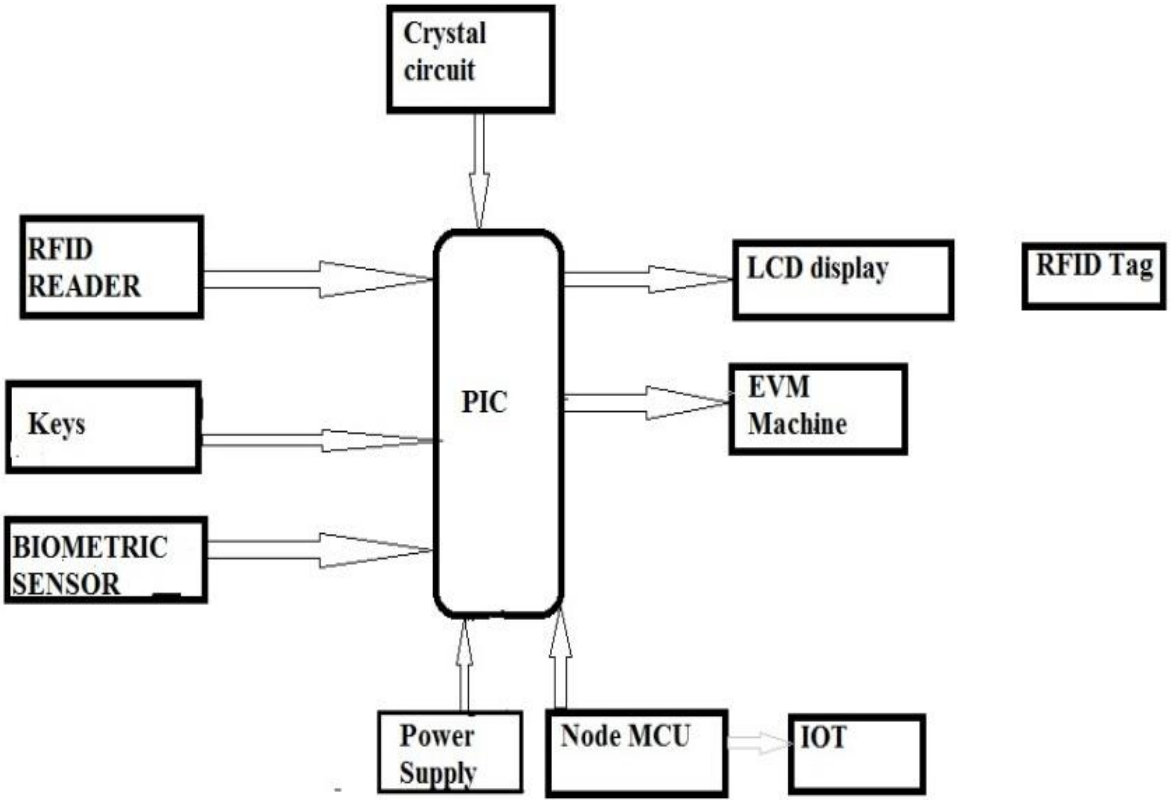

Fig 1:- Basic Fake Voter Authentication

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III. METHODOLOGY

Fig 2 shows flow of the system. Here in this process microcontroller and LCD is initialized. RFID will check if officer has swiped the card or not an accordingly further process will happen.

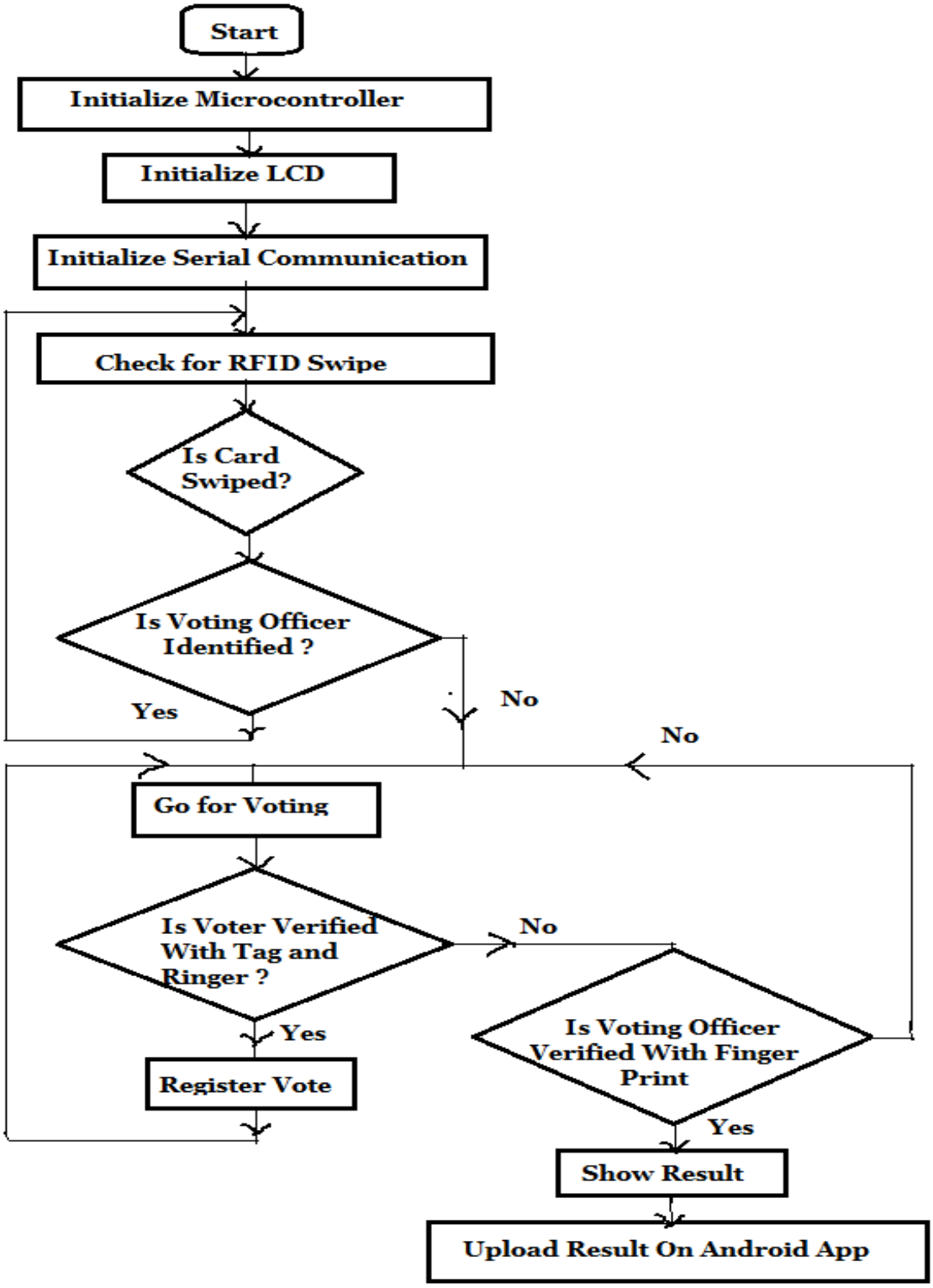

Fig 2:- Flowchart for Fake Voter Authentication

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Voting and vote repetition, less election expenditure more transparency and fast results.

IV. RESULT

The result obtained from the project is nothing but the votes counted and final result of election is displayed.

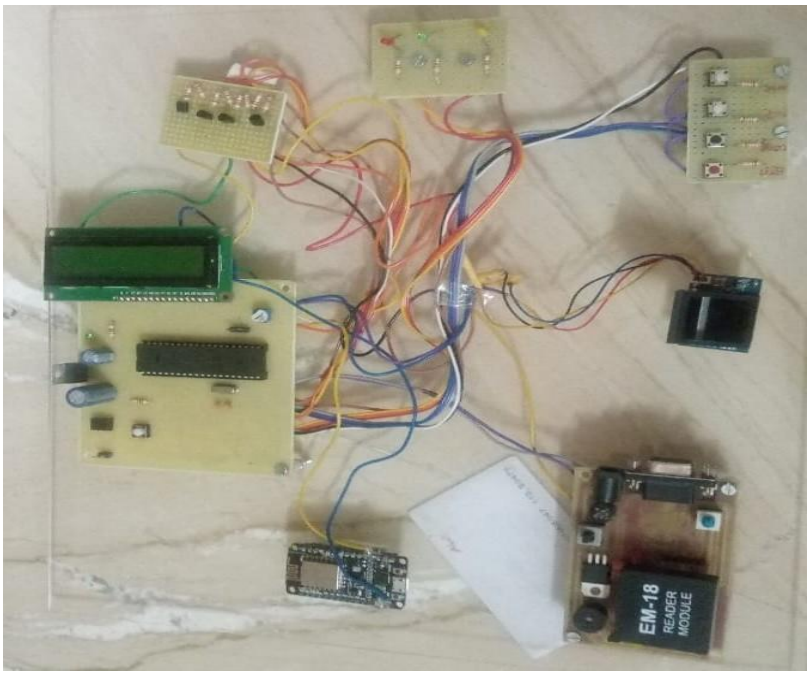

Fig 3:- Final model of voter Authentication

V. CONCLUSION

This is designed for security purpose. This system is based on RFID tag and Biometric identity, due to that there is no chance of fake voting.

REFERENCES

- Syed Sheeraz Ahemad “Safe Vote: A Secure Biometric Voting System”, Research Gate, June 2015.