

RFID BASED ELECTRONIC VOTING SYSTEM

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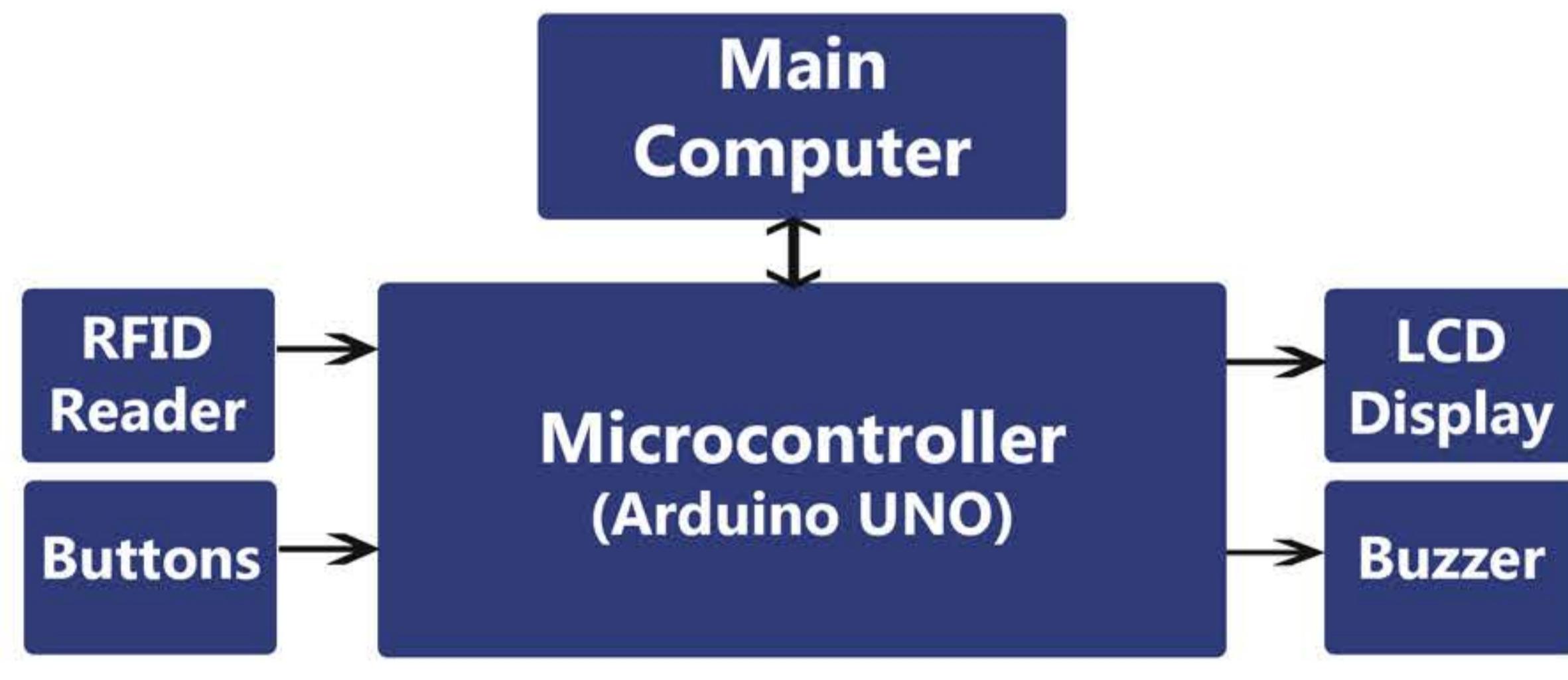
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Abstract

This project combines the **RFID** technology and electronic voting which provides a faster, easier and more secure voting. **RFID** (Radio Frequency IDentification) technology allows the identification of the voters using contactless cards. Main computer checks the ID number of the card, if the person is eligible to vote, the voting circuit starts. Voters use pushbuttons in the voting booths to select a party and the vote data are sent to main computer and stored in the



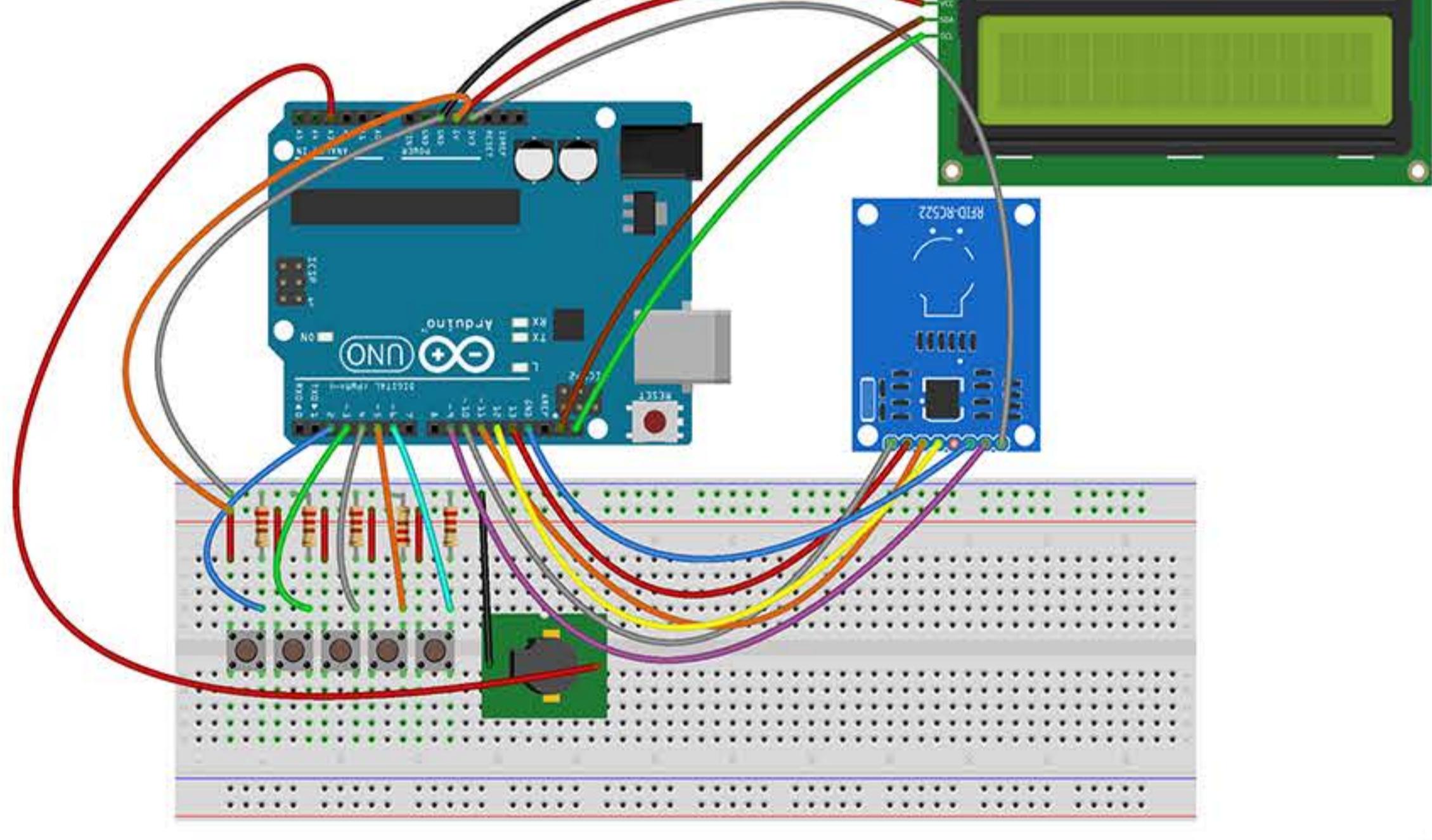
Main Components

- Arduino UNO
- RFID Reader
- Pushbuttons
- 16x02 LCD Display
- Buzzer
- Computer

(Block Diagram of the System)

Advantages

- Voting and counting the ballots will speed up.
- This system will prevent invalid votes and counting mistakes.
- Identification of the voters will be easier and faster.



(Schematic of the voting circuit)



(Screenshot from the computer program)

Conclusion

The goals of the project were achieved. The system successfully controls the identification of the voters, getting selections and arranging the data. A number of people can vote simultaneously using this system. For further security concerns, a biometric fingerprint scanner can be added to the circuit.

References

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- <https://www.sunfounder.com/learn/Sensor-Kit-v2-0-for-Arduino/lesson-1-display-by-i2c-lcd1602-sensor-kit-v2-0-for-arduino.html> (LCD1602 I2C Connection)
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