SAFE VOTE

A FRAUDULENT VOTING PREVENTION USING RFID AND FINGERPRINT

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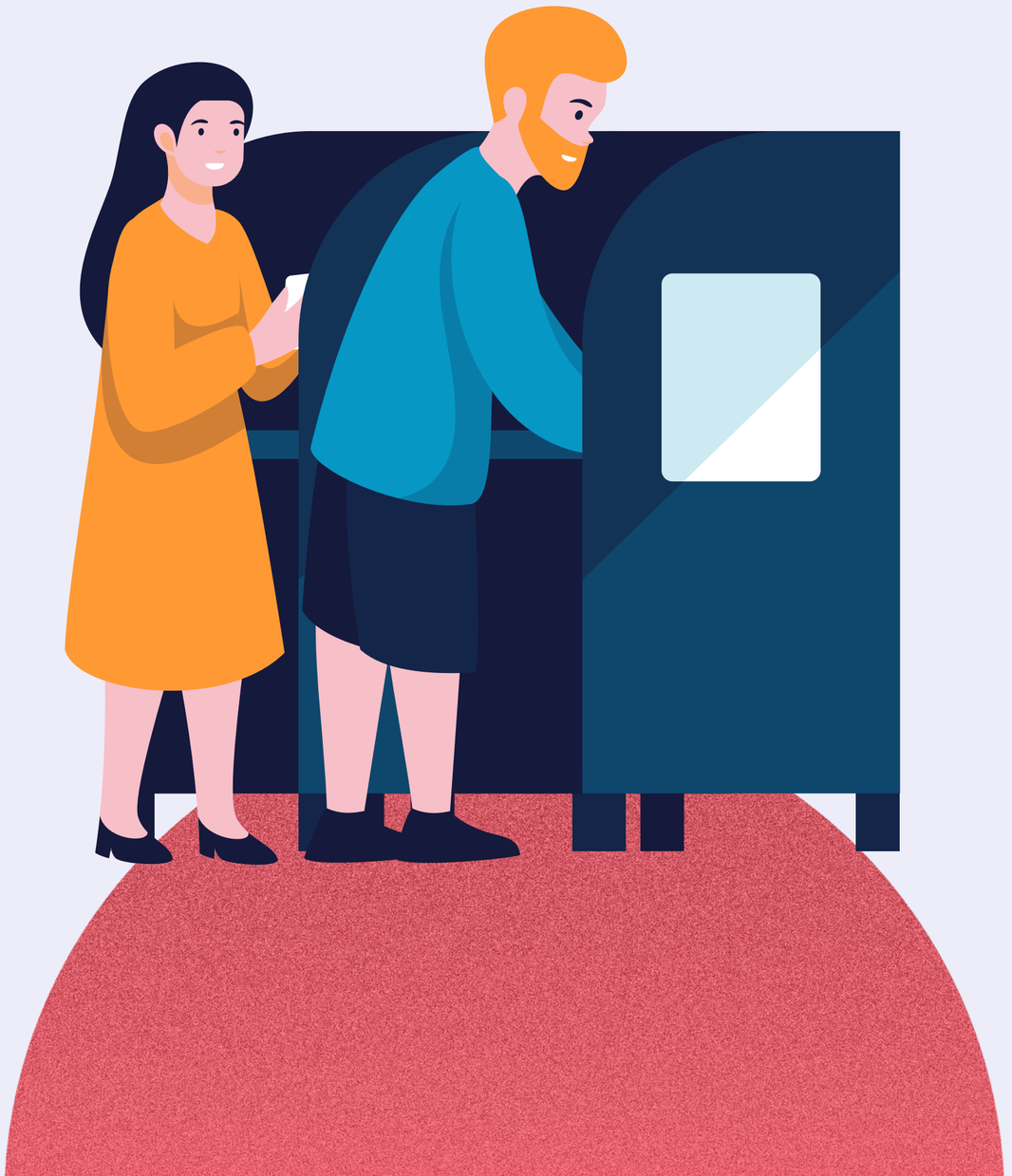
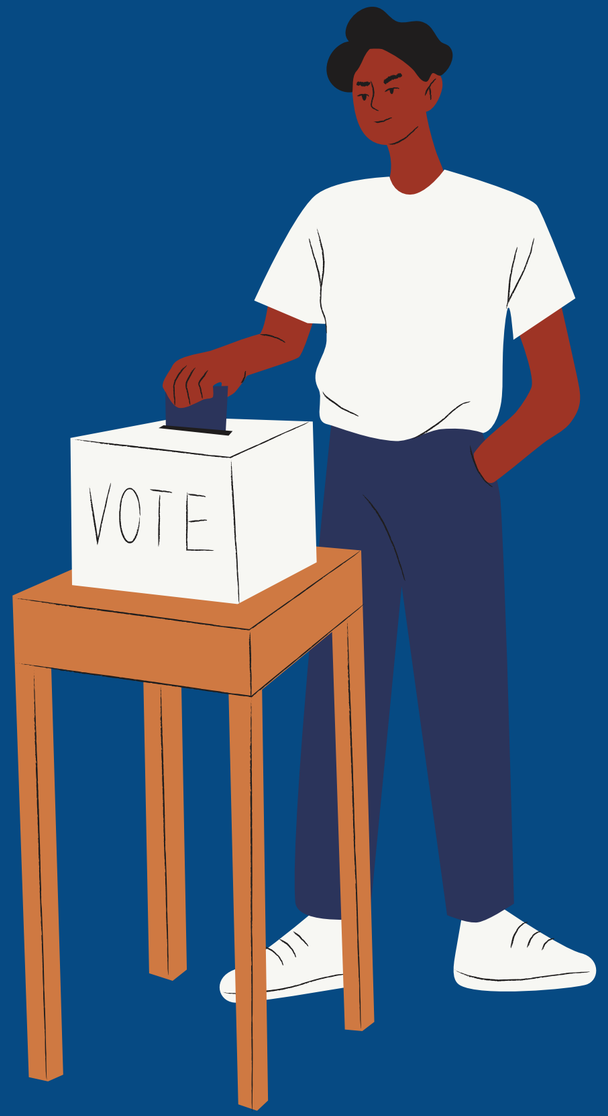
PROBLEM STATEMENT

- Counting errors.
- Identity theft.
- Malpractices during voting.
- Manual verification process .

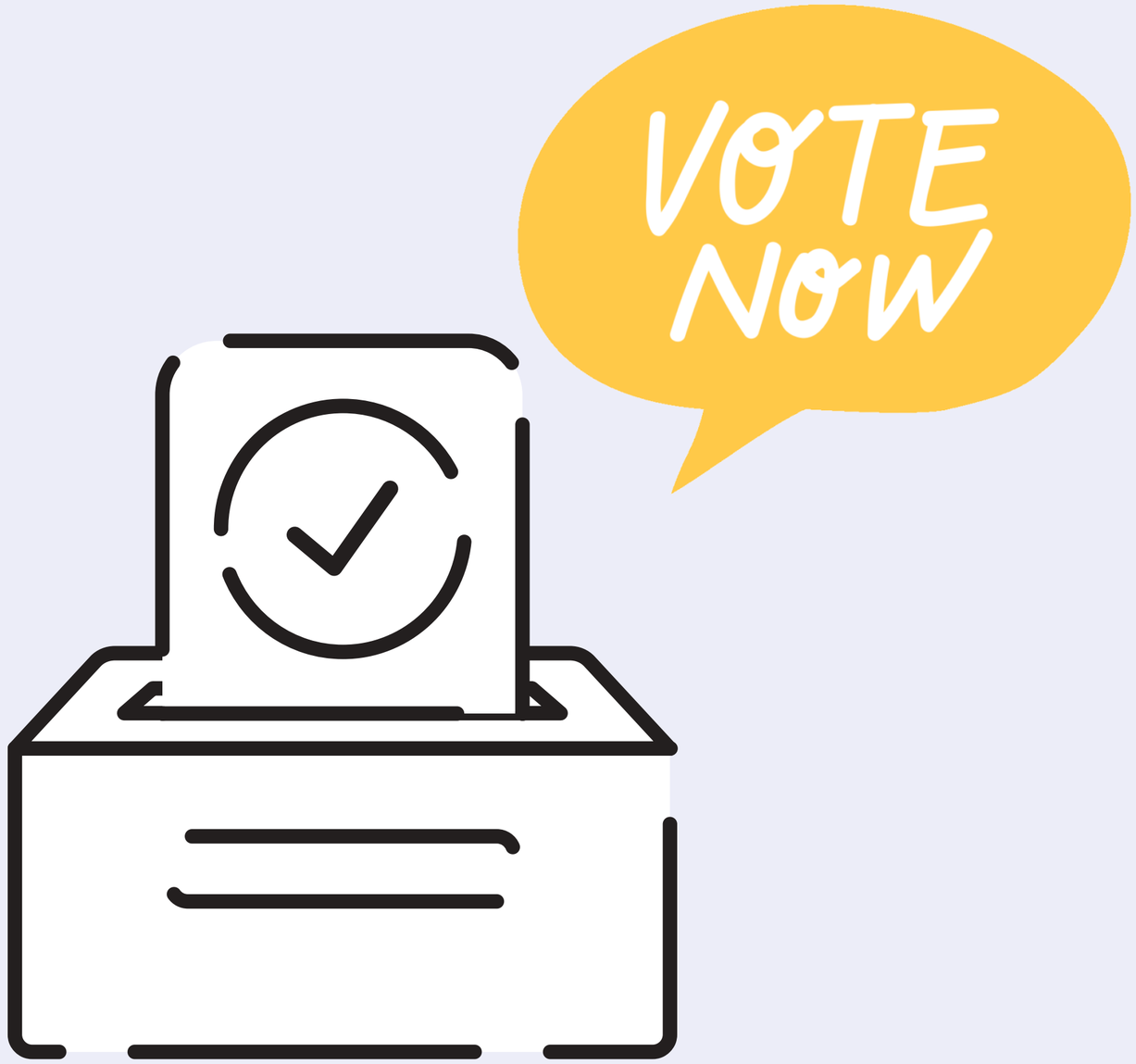




- Electronic Voting Machine is used for recording votes.
- An EVM comprises of a control unit and a balloting unit.
- The voter can cast this vote by pressing the blue button against the symbol of the voter's choice.
- The control unit can store the result in its memory until the data is deleted.

PROPOSED SOLUTION

- RFID chips are placed in the voters ID.
- RFID chips helps verify the official documents provided by the government (VOTER'S ID) ..
- Fingerprint used verify biometrics.



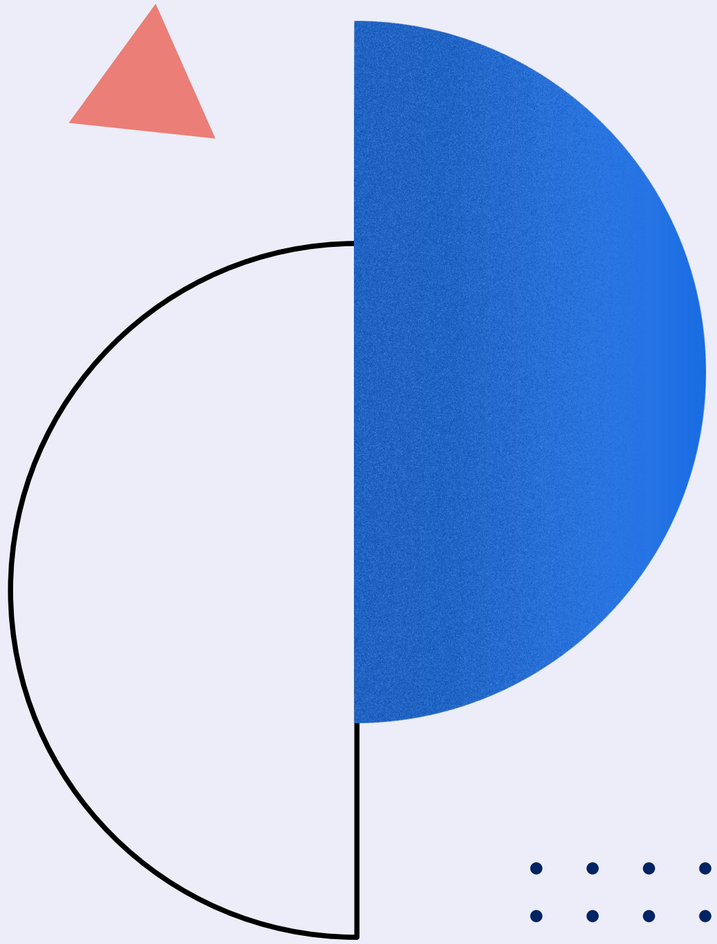
TECHNOLOGY-PROCESS

- RFID reader reads the voter's ID card
- Fingerprint reader reads the fingerprint and verifies with already existing data.

COMPETITIVE ADVANTAGE

<u>Existing method</u> - Electronic Voting Machine is used for recording votes.

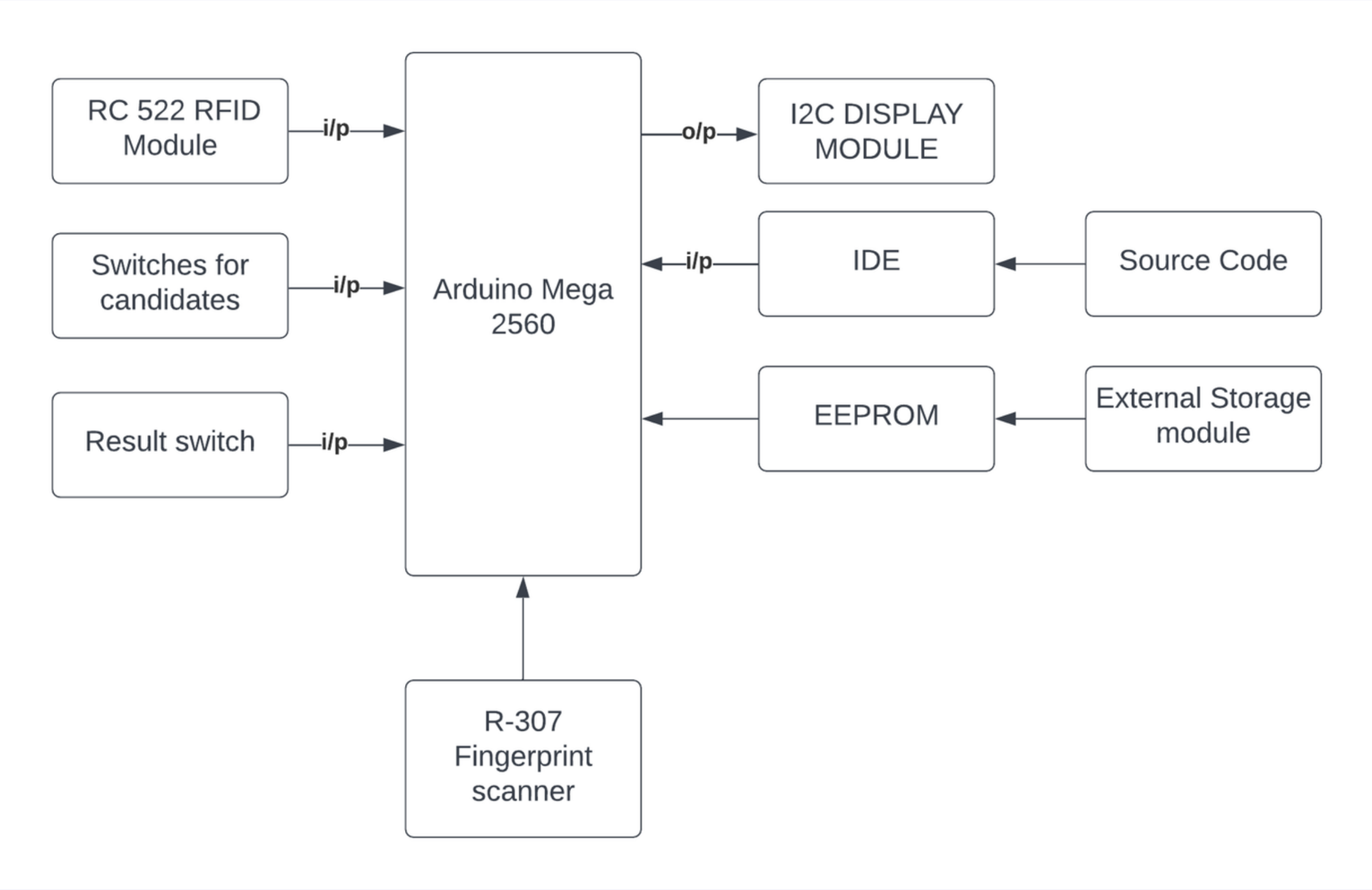
- Susceptibility to fraud
- Malicious software programming
- More people are required
- Less security



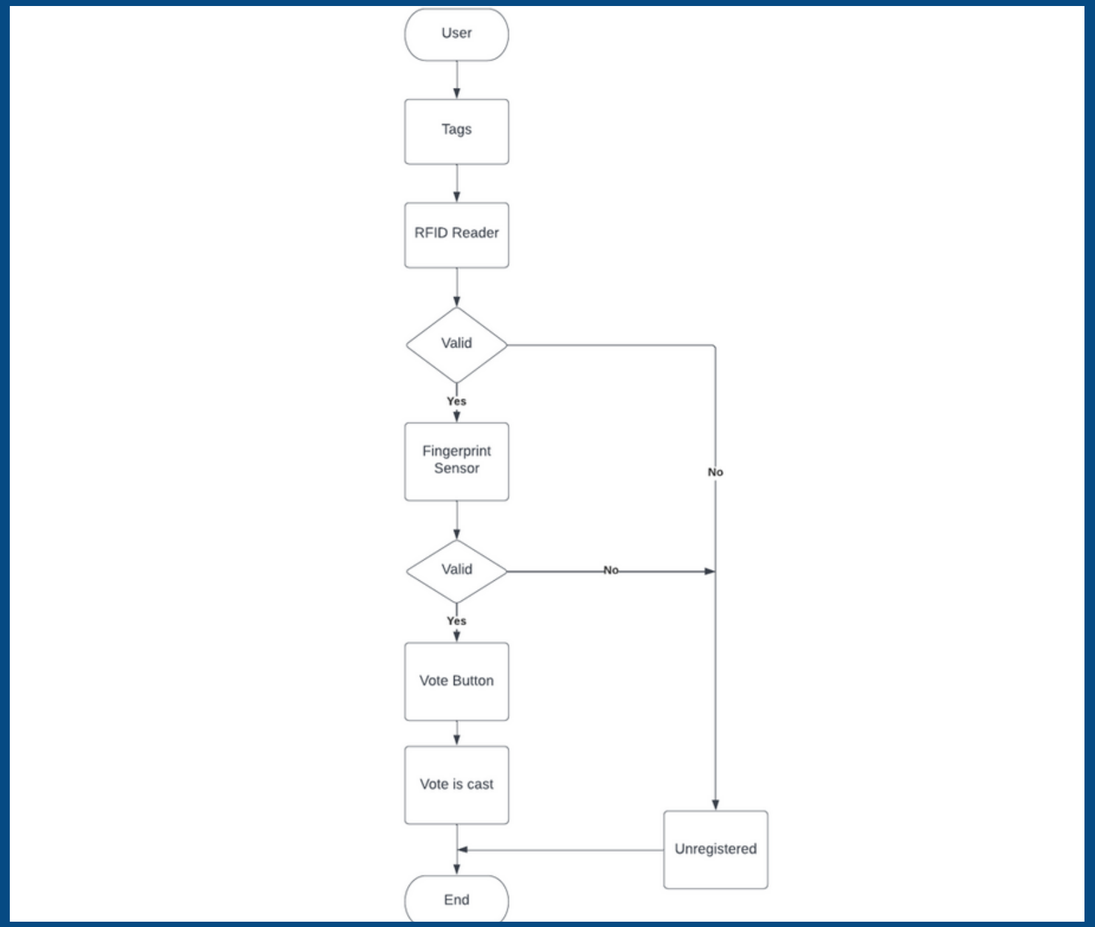
VALUE PROPOSITION

- The VOTE is the most important part of a country's democracy.
- Intervening in illicit practices will lead to the country's demise.
- This system aims to provide secure voting to the citizens of the country.

BLOCK DIAGRAM



FLOW OF CONTROL



CONCLUSION

- The project is to be extremely beneficial in overcoming the challenges encountered during the verification process.
- It effectively utilises a person's facial features.
- This is a good way to cut down on manpower requirements and other illegal activities.
- The approach might be expanded to assist the government during elections and significantly minimise fraud.

REFERENCES

- Design and Realization of RFID based Smart Voting System with Frontal Face Recognition Technique - IJERT 2020
- RFID BASED SMART VOTING SYSTEM - IRJET 2019
- Face Recognition as an Authentication Technique in Electronic Voting - IJACSA 2013
- An RFID based smart EVM system for reducing electoral frauds - IEEE 2016

THANK YOU