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Smart Voting System Using IoT with Biometric (Face and Fingerprint Recognition)

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Abstract: *This project is about an online voting system using face and fingerprint recognition. The main aim of this project is to make voting secure and easy. In normal voting system many problems are there like fake voting and same person voting many times. So to reduce this problem, we are using face and fingerprint recognition method in our project.*

In this system, first voter has to register by filling details and face image. When voter wants to vote, camera gets on and face image is taken. The system detects face using Haar Cascade method. After face detection, the system uses LBPH technique to read the face details. This face is compared with the face data which is already stored in database.

If both face data matches, then voter is allowed to give vote. After giving vote one time, voter cannot vote again. If face is not matching, then voting is not allowed and message is displayed on screen. By this way fake voting is avoided.

All voter details and voting information is saved safely in the system. Because the process is automatic, it saves time and manual work is less. This project gives a simple solution for online voting using face and fingerprint recognition..

Keywords: Online Voting System, Face Recognition, Fingerprint Recognition, Secure Voting, Fake Voting Prevention, Voter Registration, Face Detection, Database

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