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(57) Abstract :

Democracy of a nation is the VOTE by which people electronic vote of their favorite candidate to rule the nation. Biometric enrolment and biometric matching (which can be done manually or automatically) are the two aspects of biometric processing when the user must insert the finger again when enrolling. Designed and built a Fingerprint-based voting machine that authenticates four candidates based on their database taken using button system the he/she chose the candidate. In this system a database containing the details of the voter, fingerprint and details of candidate are collected prior and stored. The database was controlled by an Arduino controller, with a Liquid crystal display to assist users through the voting process, a Fingerprint tag authenticate voters, and four pushbuttons to vote for one of four selected candidates and addition to the single means of overall count having separating button. The use of biological traits or characteristics to identify an individual is referred to as biometrics. While voting, the Biometric Voting System (BVS) will access data held in the database of each citizen's Aadhar card, a government-issued identification card. Our biometric data, such as fingerprint and iris images, are stored on the Aadhar card. On Election Day, the BVS is coupled with a biometric fingerprint machine for the validation of a real voter by comparing the provided image with the voter's previously saved fingerprint image in the Aadhar card database.

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