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ABSTRACT

Casting a vote is not only the right of a citizen but also a responsibility of the citizen. The citizens of a country get an opportunity to vote for their representatives who will represent the needs and suggestions of citizens. These representatives are elected through the process called elections. The traditional electoral system necessitates the actual presence of the voter which causes discomfort to the physically challenged people. Also, there are chances of vote tampering. Our proposed solution is to use an Online Voting System using Ethereum Blockchain. This web-based voting system helps the voters to vote from any location. The system validates the voters with the help of their Aadhar cards linked with their voter id. After which the system requires the voters to scan their face and fingerprint which will be verified with the data in the database. Blockchain technology encrypts the vote and thus it prevents every vote from tampering. It makes sure that a voter can vote only once for one candidate. The system fetches the election results quickly and thus reduces the labour cost and counting errors.

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