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E-Voting System using Blockchain Technology and Fingerprint Authentication

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Abstract: *Increasing digital technology has revolutionized the life of people. Unlike the electoral system, there are many conventional uses of paper in its implementation. The aspect of security and transparency is a threat from still widespread election with the conventional system (offline). General elections still use a centralized system, where in one organization manages it. Some of the problems that can occur in traditional electoral systems is with the organization that has full control over the database and system. It is possible to tamper with the database of considerable opportunities. Block chain technology is one of solutions, because it embraces a decentralized system and the entire database are owned by many users. Block chain itself has been used in the Bitcoin system known as the decentralized Bank system. By adopting block chain in the distribution of databases on evoting systems one can reduce the cheating sources of database manipulation. This project aims to implement voting result using block chain algorithm from every place of election. Unlike Bitcoin with its Proof of Work, this will be a method based on a predetermined turn on the system for each node in the built of block chain.*

Keywords: Security and Protection, Internet Voting System, Voter Password, Visual secret sharing

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