SECURE DIGITAL VOTING SYSTEM BASED ON AADHAAR AUTHENTICATION AND BY USING BLOCKCHAIN TECHNOLOGY

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Abstract

The title specifies a Secure digital voting system using blockchain technology and Aadhaar authentication. Blockchain could be a digital record of transactions that's distributed across the complete network of computer systems. Blockchain is a system of recording data in a way that makes it hard to interchange, hack or mislead the system. Aadhaar authentication done by providing Aadhaar number and QR code scanning. Aadhaar integration to the E-voting system overcomes the replication of votes. Digital voting is also referred to as E-voting. It is a voting that uses electronic means to cast and count the votes of user. The Proposed System provides the secured E-voting system by using the Virtual ID of the Aadhaar database and also the data is represented in encrypted form so it is very complex to interrupt the information. Aadhaar database used to cast the votes and these votes are stored inside the blocks. Blockchain provides safety to the digital voting system. User scan the QR Code of Aadhaar it results into avoids the replication of data. SHA 256 works as Manipulation Detection Code which detect the modification of an electronic message. Blockchain Technology and Aadhaar Authentication provides the safe and Secure Digital Voting System.
Keywords: *Blockchain Technology, Virtual Id of Aadhaar, Hashing, E-voting, Firebase Cloud*