Abstract

Mobile is emerging technology and center of attraction for worldwide end-user. The proposed system suggests solution called mobile voting application to solve geographical restriction for casting votes and to avoid complexity and standing in a queue for longer time. The security is an important concern in any voting system. This system provides security by applying the authentication. User’s identity issue is solved by secure authentication strategy. The primary goal of authentication is a prevention of any unauthenticated person from duplicating various users. The proposed system uses encryption technique to store the user's information into the encrypted form to achieve a greater level of security. The application protocol consists of three phases. The first phase is voter registration, the second phase is vote casting and vote collecting and the third phase is result phase. For authentication of authorizing end-user, the application generates 4 digit pin from NIC (National Identification Code) and SIM (Subscriber Identity Module). The purposed protocol provides secure and efficient voting approach. Vote Encryption is done using AES Encryption algorithm.
References


Tavel, P. 2007 Modeling and Simulation Design. AK Peters Ltd.


Index Terms

Computer Science Information Systems

Keywords

Encryption, security, Authentication, NIC, SIM.