

ABSTRACT

General election or commonly abbreviated as election is a procedure for selecting and supporting a particular choice or candidate. According to Law Number 8 of 2012 concerning General Elections, namely general elections must be carried out directly, publicly, freely, secretly, honestly and fairly (luberjurdil). According to these provisions, it can be said that the general election must be held in a fair and equitable manner. However, in practice there are still many who do not carry out general elections in a fair and equitable manner due to the central nature of the system so that those in power can change data and manipulate data unilaterally, so that the implementation of general elections is not carried out in a fair and just manner. Blockchain-based e-voting system and smart contracts are here to answer this challenge

The e-voting application system based on blockchain and smart contracts allows the implementation of general elections in a fair manner due to the nature of the technology that changes the centralized data system to a decentralized one so that irresponsible persons will not be able to change or manipulate the data, so it is hoped that the election will be held general can be carried out luberjurdil. The exploration of the phenomena raised in this study used descriptive qualitative research methods. Sampling of data using purposive sampling technique and secondary data collection. The resource persons involved were students and students at the Pondok Pesantren Roudhotul Jannah, blockchain experts, and KPU (Komisi Pemilihan Umum).

In this study, the researcher used the triangulation method to compare data from the sources with one another and reference materials as supporting evidence for the validity of the data obtained, such as interview transcripts to test the validity of the data. In addition, the researcher also uses the member check method to confirm to the informants that the findings that have been obtained by the researcher based on the information provided by the informant at the time of the interview are correct and appropriate.

Keywords: *E-Voting, Smart Contract, Blockchain, KPU, Decentralization, Data Security*