

ABSTRACT

Muh.Khaerul “*IMPLEMENTATION OF BLOCKCHAIN TECHNOLOGY USING HYPERLEDGER FABRIC IN ANDROID-BASED E-VOTING APPLICATIONS* . *Supervisor (1) Ipam Fuaddina Adam, ST., M.Kom.*

The E-vote system or Electronic Vote is a voting mechanism that utilizes technology or electronic devices at the time of voting. E-voting is an efficient and cost-effective way of voting. However, the e-voting system is still vulnerable to fraud in the form of changing the voting data on the system carried out by individuals from outside parties and third parties who are trusted to hold voting. This can be overcome by implementing Blockchain technology so that the voting results are non-repudiation. This is because to change data on the Blockchain network, you must trace data from the initial node where the process of a Blockchain network starts, then repeat the process on all nodes involved in the system to ensure that the system changes the data as if it were correct, which is where to do this considered impractical. From this research, an e-vote system can be generated on Android by utilizing Blockchain technology using Hyperledger Fabric to maintain the integrity of e-voting data.

Keywords : *Blockchain, Hyperledger Fabric, E-voting*