

***DEVELOPMENT OF A PROTOTYPE OF EMPLOYEE PAYMENT SYSTEM
USING ETHEREUM BLOCKCHAIN***

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Abstract

At first the employee payroll used was still using manual payroll or via bank transfer. However, along with today's developments, there has been a blockchain on which various kinds of Decentralized Applications (Dapps) can be built which can be used for anything, for example as a place to pay employees. Payroll employees are currently still manually there are those who do direct payroll there are through the bank. This manual payroll has a weakness, namely that business owners will find it difficult to provide salaries when the business owner is not in place or a franchise business that will take up a lot of time just to pay employees. Payroll using a bank also has a weakness, namely it has a fairly expensive service rate and sometimes if the business is located abroad, the service fee and time required to send money will be expensive and large, therefore blockchain is present as a digital revolution technology in terms of sending digital money.

Smart contracts were first introduced by Ethereum they claim various program codes can be published on their blockchain network. Smart contracts are now widely adopted by cryptocurrency developers such as cardano who call themselves the 3rd generation blockchain and have polka dots with their smart contracts. A smart contract is a computer program that runs on a blockchain that contains the status, relationship with the cryptocurrency, and user input. Smart contracts are widely used for payroll systems, insurance and Not Fungible Token (NFT) projects. The most widely used smart contracts are smart contracts from Ethereum, for example, websites for NFT providers such as Opensea still use Ethereum as their payment instrument and use smart contracts from Ethereum as a contract between the owner of the work and the buyer of the work.