

ABSTRACT

IMPLEMENTATION OF NFT-BASED MUSIC EVENT TICKET SALES USING *BLOCKCHAIN*

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Counterfeit tickets and ticket manipulation have become a threat in the ticketing industry and cause financial losses to event organizers as well as attendees. Therefore, this research aims to provide a solution that can overcome this problem. The solution offered is a technology called *blockchain* and NFT. *Blockchain* is a system that allows transactions to be made without the need for intimidation from third parties. This technology is to secure the security of ticket purchases from counterfeiting and manipulation by other irresponsible parties. This is done by recording transactions in a distributed and immutable digital ledger. The security and transparency offered by *blockchain* make it suitable for use in a variety of industries. NFTs are created using *blockchain* technology, which allows each NFT to have a unique and accountable digital identity. This allows NFTs to be used as a valid verification tool, and can be transferred or sold to other parties and create new markets for NFT holders. The solution to the problem of fake tickets is to create an NFT-based ticket sales *website* using *blockchain*. The method of creation uses the Agile method because it is flexible and allows the development team to adjust to changing needs and user feedback. The implementation stage uses a framework called NextJS because of the speed of development, as well as the ability and support for responsive web application development. Functional testing uses a blackbox approach to ensure the overall functionality of the system. The results obtained are that *blockchain* technology using NFT is effective enough to reduce ticket forgery because ticket ownership data is obtained directly from transaction records in real time.

Keyword : *blockchain, cryptocurrency, NFT, non-fungible token, Ticket Music*