## IJARSCT

International Journal of Advanced Research in Science, Communication and Technology



International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal



Volume 5, Issue 10, May 2025

## Security-based: Asset Secure Solutions using Blockchain Technology

Prof R. V. Pawar<sup>1</sup>, Ankit Kadav<sup>2</sup>, Aniket Kadam<sup>3</sup>, Madhav Mali<sup>4</sup>, Shantanu Kapadnis<sup>5</sup>

Asst. Professor, Department of Computer Engineering<sup>1</sup> Students, Department of Computer Engineering<sup>2-5</sup> NBN Sinhgad Technical Institute Campus, Pune, India

Abstract: The "Security-based Asset Secure Solutions Using Blockchain Technology" project is designed to address the critical issues of fraud, mismanagement, and lack of transparency in asset management. In traditional financial systems, the reliance on intermediaries introduces significant risks, including the potential for unauthorized fund usage and scams. Our solution leverages the inherent security, transparency, and decentralization of blockchain technology to eliminate these risks. By utilizing Solidity-based smart contracts, our system ensures that funds are securely and automatically transferred directly to the intended recipients, bypassing any intermediaries. This approach not only secures the transaction process but also enhances trust among users by providing a clear and immutable record of all transactions. The project integrates with MetaMask, a trusted Ethereum wallet, allowing users to interact with the blockchain seamlessly. Deployed on the Ethereum test network, our solution offers a robust and scalable framework for secure asset management, paving the way for broader adoption in various financial sectors.

Keywords: Smart Contracts, Blockchain Network, Solidity, Ethereum Test Network, Metamask Integration



