

Review of: "A Proposed Secure Wearable Device Payment System Based on Blockchain Technology"

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Potential competing interests: No potential competing interests to declare.

Novelty and Contribution:

The article proposes a blockchain-based secure payment system for wearable devices, which is a novel and timely contribution, considering the growing importance of IoT and wearable technologies in the FinTech sector. However, the novelty of the work should be highlighted more explicitly, especially in comparison with existing solutions. What sets this proposed system apart from others in the field?

Clarity and Structure:

The article is generally well-structured, with a clear flow from the introduction to the conclusion. However, certain sections, such as the Literature Review, could benefit from a more concise summary of the key points. Additionally, the conceptual framework should be expanded to include a more detailed explanation of how the proposed system operates, possibly with a step-by-step process flow diagram.

Technical Details:

The use of blockchain technology in the proposed system is commendable. However, the technical aspects of the implementation, such as the integration of ECC (Elliptic Curve Cryptography) with blockchain, require further elaboration. How does the system ensure low latency and high throughput, which are critical for real-time payment systems?

Figures and Diagrams:

The figures provided in the paper are helpful in understanding the proposed architecture. However, Figure 2 (Proposed Wearable Device Architecture) could be improved with more detailed labels and explanations for each layer of the architecture. Consider including a flowchart to illustrate the transaction process within the system.

Evaluation and Validation:

The paper mentions the need for future research to validate the proposed system's viability and efficacy. While this is acceptable, the current manuscript would be strengthened by including preliminary results or a simulation study demonstrating the feasibility of the proposed system. How does the proposed system perform in comparison to existing wearable payment systems?

References and Citations:

The references are comprehensive and cover a wide range of relevant literature. However, some of the more recent advancements in blockchain technology and IoT security could be incorporated to provide a more current perspective. Additionally, the citation format needs to be consistent throughout the paper.

Future Work:

The suggestions for future research are appropriate, but they could be expanded to include specific challenges and potential solutions related to the scalability of the proposed system. For instance, how will the system handle a large number of transactions simultaneously, and what measures will be in place to mitigate potential bottlenecks?