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Secure Real Estate Registry System using Blockchain

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Abstract: *There are several issues with the current land registry systems that require attention. Firstly, the land registry and transfer process is currently done manually, with only some records and procedures digitized. However, this centralized system is riddled with issues, such as the inability to maintain a complete land history and the lack of a mechanism for detecting record tampering. Addressing these problems through a centralized system is not feasible, but decentralized systems such as Blockchain offer a solution with built-in tamper detection features. In this proposal, we aim to tackle the issues mentioned earlier by implementing a smart contract on the Blockchain network for registering lands. This proposed solution offers various benefits to stakeholders, including enhanced efficiency, transparency, trustworthiness, and integrity throughout the buying and selling process. Additionally, the framework provides a detailed history of the property, ensuring that records remain untampered and reliable. Furthermore, our proposed system is accessible via a Restful external link to traditional property dealing apps, allowing them to extract real-time information on the property, such as its dimensions, location, and price. Ultimately, our solution aims to instill confidence in conducting real estate transactions online.*

Keywords: Secure, Transparency, Blockchain, Real estate

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