

Our project is a smart contract rental system platform that leverages blockchain technology. This platform enables business owners to mint their vehicles onto the blockchain and make them available for rent to interested parties. Smart contracts are self-executing contracts that are written in code and are capable of automatically enforcing the rules and regulations specified within the contract. The blockchain, on the other hand, is a decentralized, immutable ledger that allows for the secure and transparent storage of data.

Unlike traditional rental platforms, our system relies solely on smart contract technology, eliminating the need for intermediaries to control transactions. Once a vehicle is rented, the funds are directly transferred to the contract, and upon the rental's conclusion, the owner receives the funds directly, without the involvement of any third party. This ensures that the transaction is secure and transparent, and eliminates the need for trust.

During the development process, we encountered some challenges in ensuring that all the logic flowed correctly and interacted seamlessly with one another, and in ensuring that transactions could be executed smoothly. However, we were able to overcome these challenges and create a fully functional platform in a testnet environment. Currently, we are still working on integrating the platform with Metamask and connecting it to a network, as well as expanding the platform to become a universal smart contract rental system.

Our smart contract rental system platform is poised to revolutionize the rental industry by eliminating intermediaries and providing a more secure and transparent transaction process. This platform will provide business owners with an additional revenue stream and enable renters to access a wider range of vehicles. We are excited to further develop this platform and bring it to market.