



FINAL YEAR PROJECT REPORT

**REDEFINING GAMING INDUSTRY
THROUGH SMART TOKENS USING WEB
3.0**

**In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)**

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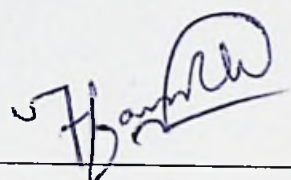
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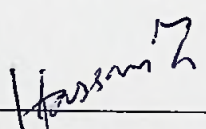
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We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

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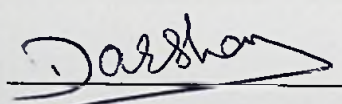
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ACKNOWLEDGEMENT

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REDEFINING GAMING INDUSTRY THROUGH SMART TOKENS USING WEB 3.0

ABSTRACT

This project aims to create a powerful and flexible smart token that lets users confidently own and control their digital assets. This smart token will be easy to use across platforms and have many applications. The project report will investigate in depth the various techniques and technologies that will be employed in the creation of this smart token, including the incorporation of WEB 3.0, Non-Fungible Tokens (NFTs), Application Programming Interfaces (APIs), and the extraction of asset sharing features. The conceptual architecture and framework will be researched and developed with a focus on verifiability, tamper-resistance, availability, usability, and tradability to ensure the smart token meets the highest standards of security, transparency, and efficiency. ERC-20, ERC-721, and ERC-1155 will be examined and incorporated. The smart token will allow gamers and non-gamers to buy, sell, lend, and borrow digital assets across platforms. The smart token will also track all asset operations, ensuring transparency and accountability. This smart token's potential will be examined through studies, projects, and future use cases. Additionally, the project encompasses the development of a decentralized NFT marketplace, where users can interact with their digital assets in a secure and transparent environment. This marketplace will be built on the blockchain and integrated with Metamask, a popular Ethereum wallet, allowing users to connect their wallets and trade NFTs. The marketplace will provide a platform for users to buy, sell their NFTs with other users in a safe and secure environment, free from the limitations and constraints of marketplaces.

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