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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

BLOCKCHAIN ARCHITECTURE DESIGN AND USE CASE (18IS7F2)
7th Semester BE

Event Organization
Phase-1
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Introduction

- In today's digital age, the events industry faces numerous challenges, from ticket fraud to inefficient ticket management systems.

- However, with the advent of blockchain technology, we have the opportunity to address these issues and create a more secure, transparent, and user-friendly ticketing solution.

- It will explore how EventOrganization leverages blockchain to simplify event ticketing processes, eliminate fraud, and enhance overall efficiency. Join us as we delve into the key features, benefits, and implications of EventOrganization in reshaping the events landscape.

❖ **Decentralization and Security:** Utilizing blockchain technology, EventOrganization ensures decentralization, making it resistant to tampering and fraud while enhancing security in event ticketing.

❖ **User Experience and Accessibility:** EventOrganization prioritizes user experience by providing a user-friendly interface accessible to all, regardless of blockchain expertise, thus democratizing event ticketing.

❖ **Immutable Ownership Records:** With blockchain's immutable ledger, EventOrganization maintains secure and transparent ownership records, eliminating disputes and ensuring accountability in ticket ownership.

❖ **Royalty Management:** EventOrganization facilitates transparent royalty management by automatically distributing royalties to event organizers and creators, ensuring fair compensation for their contributions.

❖ **Provenance Verification:** Through blockchain's transparent and traceable nature, EventOrganization enables users to verify the authenticity and origin of event tickets, reducing the risk of counterfeit tickets and fraud.

❖ **Smart Contracts**: Automation via smart contracts streamlines data management, setting predefined rules for secure transactions.

The objectives are as follows:

- ❖ Create a Secure Event space.
- ❖ Establish Transparent Ownership Records.

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❖ **Create Events:** By giving necessary details such as the event name, ticket cost, start date, and the amount of available tickets, organizers may easily create events. The blockchain securely stores these events.

❖ **Buy Tickets:** The process of buying event tickets is simple. We make sure that only legitimate events are available for ticket buying with our smart contract. It also verifies the accuracy of the payment and the availability of tickets.

❖ **Transfer Tickets:** Need to transfer tickets to a friend or have extras? You may quickly transfer tickets to other Ethereum addresses using the built-in ticket transfer capability.

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- ❖ Ethereum Network
- ❖ Solidity
- ❖ Remix-Ethereum

References

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