Votik: Blockchain-Based Event Ticketing and Networking Platform

Course Project Proposal

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Introduction

Blockchain technology is revolutionizing various industries, offering opportunities for innovation. This proposal outlines Votik, a blockchain-based platform for event ticketing and networking. Votik tackles challenges in the ticketing ecosystem while fostering attendee connections. By leveraging blockchain, Votik ensures transparency, security, and efficiency, transforming event management and attendee experiences.

1. Area of Focus

Votik focuses on event ticketing and social networking within the live entertainment industry.

2. Idea Description

Votik utilizes blockchain technology to address ticketing issues like high fees, fraud, and limited user engagement. It also introduces social networking features like pre-event chatrooms to connect attendees.

Key Features:

- Secure and transparent ticketing with blockchain
- Reduced fees for organizers and buyers
- Pre-event chatrooms for attendee networking
- Integration with event organizers for seamless management

3. Domain Understanding

Current Value Chain:

Event organizers -> Promoters -> Ticketing Platforms -> Users

Pain Points:

- High ticketing fees
- Lack of transparency
- Risk of counterfeit tickets
- Limited user engagement

Votik's Disruption:

- Streamlines ticketing with a secure, decentralized system
- Enhances user engagement through social features

4. Geography and Regulation

Geography: Initial operation in India (major cities like Mumbai, Bengaluru, Delhi)

Regulatory Bodies:

- Reserve Bank of India (RBI) for payment processing (rbi.org.in)
- Ministry of Electronics and Information Technology (MeitY) for blockchain (meity.gov.in)

Supporting Regulations:

- Government initiatives promoting blockchain technology

Restricting Regulations:

- Personal Data Protection Act (PDPA)

5. Technology

- **Blockchain:** Secure, immutable ticket records
- **Smart Contracts:** Automate ticket distribution and resale
- **Decentralized Storage (IPFS):** Securely store event data
- **Chatroom Features:** Real-time messaging APIs

Solution Architecture:

- **User Registration**: Decentralized identity (DID) for authentication
- **Ticket Issuance:** Smart contracts for purchase and resale
- **Pre-event Chatrooms:** Blockchain-backed access control for verified users

Algorithm/Model Development

- **Sample Data Generation:** Simulate user purchases and interactions.
- **Example Prompt:** Generate data for 500 users purchasing tickets for 5 Mumbai events (ticket IDs, timestamps, demographics).

6. Customer and User Behavior

Target Users:

- Event attendees
- Event organizers
- Promoters

Value Proposition:

- **Attendees:** Fraud-free tickets, lower costs, enhanced networking
- **Organizers:** Reduced fees, advanced analytics

Revenue Model:

- **Commission:** 5% per ticket sale
- **Subscription Plans:** Premium features
- **In-app Advertising**

7. Appendix A: References

- Reserve Bank of India (RBI) Regulations: rbi.org.in
- MeitY Blockchain Policies: meity.gov.in
- Sample Blockchain Frameworks: Ethereum, Hyperledger Fabric

8. Appendix B: ChatGPT Usage

ChatGPT Usage:

Prompts Used:

- List potential regulatory bodies for blockchain platforms in India.
- List common pain points in the event ticketing industry that blockchain can solve.
- Identify competitors in the blockchain-based event ticketing market.
- Conduct a SWOT analysis for a blockchain-based ticketing startup.
- Summarize key insights from blockchain whitepapers relevant to event ticketing.