Computer Society of India
Student Branch, VIT Pune

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[THE ULTIMATE HACKATHON]

Track Name

Verbwire - Blockchain Risk Management

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TEAM DETAILS

Team Members

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PROBLEM STATEMENT

Blockchain Risk Management: Build a blockchain system for BFSI (Banking, Financial Services, and Insurance) to track financial transactions, prevent fraud, and automate processes like claim settlements and loan disbursements using smart contracts. Ensure regulatory compliance and provide real-time dashboards for monitoring and role-based access.

Invoices Bank statements

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TECH STACK

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Platforms

1. Frontend: React.js, Angular, or Vue.js
2. Backend: Node.js, Django, or Flask
3. Blockchain Platform: Ethereum, Hyperledger Fabric, or Polygon
4. Smart Contract Language: Solidity or Chaincode
5. Database: MongoDB, PostgreSQL, or Firebase

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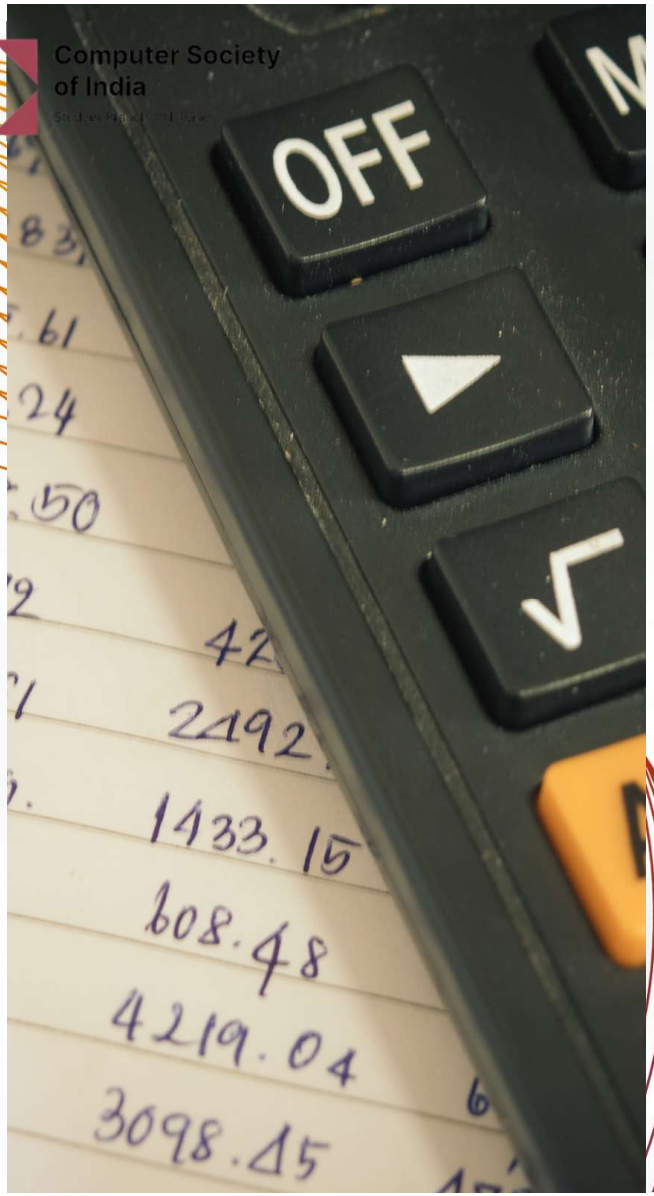
FEATURES

- **Transaction Tracking**: Real-time tracking of all financial transactions with transparency and immutability.
- **Fraud Prevention:** Implementing fraud detection algorithms and monitoring unusual transaction patterns.
- **Smart Contracts**: Automating claim settlements and loan disbursements to reduce manual intervention.
- **Regulatory Compliance:** Ensuring adherence to financial regulations like AML (Anti-Money Laundering) and KYC (Know Your Customer).
- **Role-Based Access:** Providing restricted access to data based on user roles (e.g., admin, auditor, customer).
- **Real-Time Dashboards:** Visualizing key metrics and transaction data for stakeholders.



IMPLEMENTATIO

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1. Blockchain Setup:

- Choose a blockchain platform (e.g., Ethereum).
- Develop and deploy smart contracts using Solidity for automating processes.

1. Backend Development:

- Build APIs to interact with the blockchain and database.
- Integrate Verbwire APIs for enhanced blockchain functionality.

1. Frontend Development:

- Create a user-friendly interface for dashboards and role-based access.
- Implement forms for claims and loan requests.

1. Fraud Detection:

- Use machine learning models or rule-based systems for anomaly detection.

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CURRENT STATUS

- Phase 1: Blockchain and smart contract setup completed.
- Phase 2: Backend APIs integrated with the blockchain.
- Phase 3: Frontend under development.
- Phase 4: Final testing and deployment

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THANK YOU!