

Team Name: **Crypto Wizards**

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GitHub Repository: <https://github.com/Crypto-Wizards-tech/blockchain-health-insurance-system>

Theme Topic: **Automatic Health Insurance Claim Settlement System**

Problem Statement

The health insurance claim process suffers from inefficiencies such as lengthy processing times, high costs, fraud, lack of transparency, and data privacy issues.

Proposed Solution

A blockchain-based system that automates claim validation, fraud detection, and payouts using smart contracts and decentralized storage.

Key Features

Claim Submission and Verification:

- Secure submission through a web/mobile app.
- Medical records fetched using APIs.

Automated Validation:

- Smart contracts validate claims against policy terms.

Fraud Detection:

- Immutable ledger detects anomalies in claim patterns.

Instant Payouts:

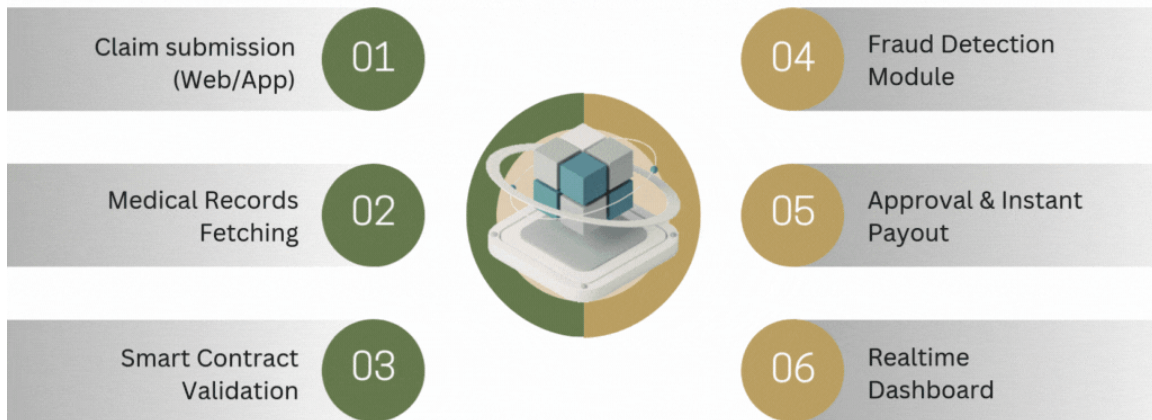
- Approved claims trigger immediate disbursements to wallets.

Transparency and Privacy:

- Patients track claims in real-time.
- Sensitive data stored off-chain, secured via blockchain.

Implementation Flowchart/Architecture Diagram

Blockchain-based Health Insurance Claims system



- Claim submission via app.
- API fetching medical records.
- Smart contract validation.
- Fraud detection module.
- Approval and wallet disbursement.

Impact and Future Scope

Impact:

- Faster claim settlements (from weeks to minutes).
- Reduced costs for insurers.
- Improved trust and satisfaction among stakeholders.

Future Scope:

- **Scalability:** Support for multiple insurers and cross-border claims.
- **Advanced Fraud Detection:** AI/ML integration.
- **Interoperability:** Seamless integration with EHR systems.