SeizeChain: An Approach to Secure the Seizure Procedure

Team 104_Not_Found

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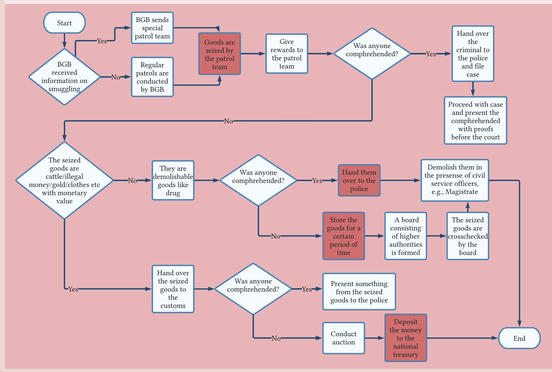
Conventional Seizure Procedure in Bangladesh



Seizure of goods

Potential Problems in the Conventional Procedure

- Error prone
- Difficult to maintain
- Easy to alter
- Difficult to cross-check
- Vulnerable to corruption

Impact

- Social impact
- Business impact

Solution to the Potential Problems

- BGB patrol party seizes and records on Blockchain
- Any entity receiving the seized goods add an entry on Blockchain
- Magistrates demolish seized goods and saves the record
- Customs officers sells the seized goods in auctions and saves the record
- Regulators watch over the procedure by generating reports

System Architecture

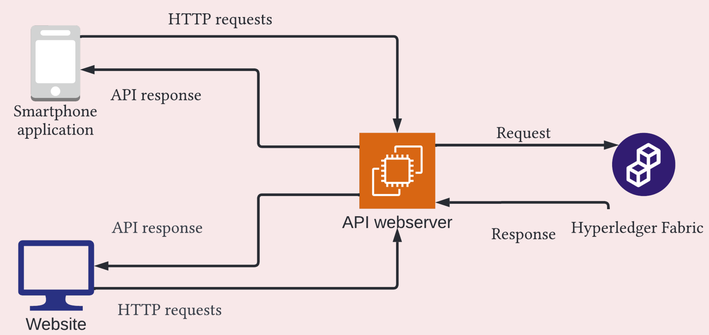
- React JS
- Flutter
- Node JS
- Hyperledger Fabric

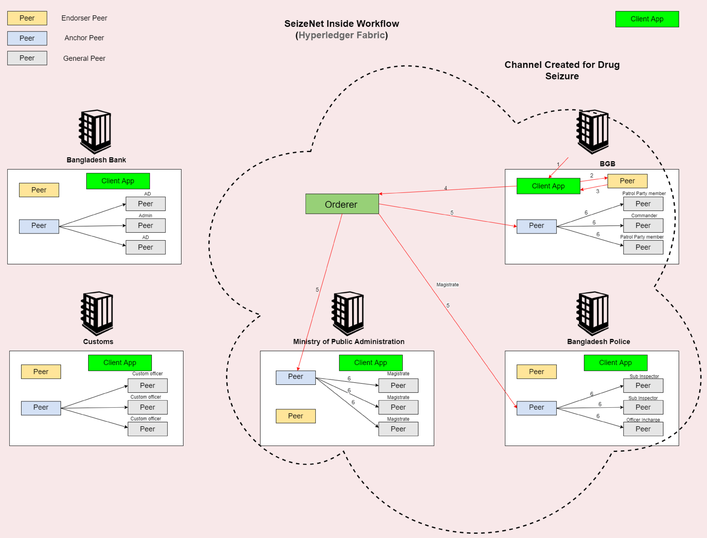
Permissioned blockchain

Transparent

Distributed data

Immutable data





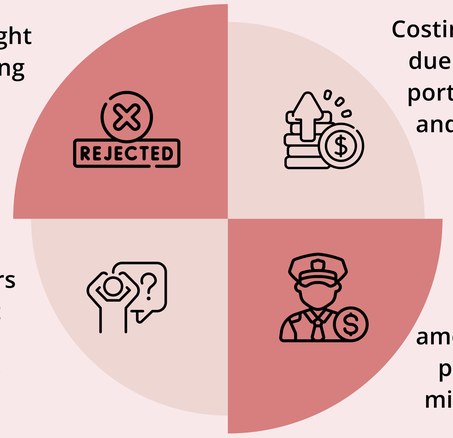
Market and Financial Implications

- 5 BGB regional headquarters
- 16 sectors
- Partners associated with the sectors
- Monthly seized goods worth billions

Partners and Stakeholders

- BGB
- Bangladesh police
- Customs officers
- Magistrate
- Regulators

Risks and Challenges



- Partners might deny adopting the new technology
- Costing overhead due to maintain portable printer and the system
- Older officers might find it difficult to use the new system
- Corruption among the BGB patrol parties might increase

Distribution and Sustainability

- Deployment of System
- Training of the Partners
- User Feedback
- Iteratively Improving the System