Define Problem / Problem Understanding

Specify The Business Problem

Team ID	NM2023TMID04427
Project Name	Project - Tracking Public Infrastructure And Toll Payments Using Blockchain

Blockchain Solve Business Problems :

- Blockchain creates trust between different entities where trust is either nonexistent or unproven. ...
- Decentralized structure. ...
- Improved security and privacy. ...
- Reduced costs. ...
- Speed. ...
- Visibility and traceability. ...
- Immutability. ...
- Individual control of data.

Inefficient Toll Collection Systems :

    Security is especially important in payment transactions. Blockchain smart contracts can be used to exchange anything of value without the services of a middleman. They can also be used to **define and enforce rules and penalties as agreed on in a contract between two parties**.

Lack of Transparency :

- Blockchain transparency is achieved through the use of a distributed ledger.
- Blockchain technology provides a distributed ledger that records and stores transactions in a transparent and tamper-evident manner.

Administrative Costs :

    Design: System Blueprint, user interface/experience design including wireframes, high-fidelity designs with a prototype and low-fidelity designs with app flow.

    Development: Coding and Testing.

Fraud and Revenue Leakage :

Blockchain is a revolutionary technology that helps detect and prevent fraud by providing a transparent, immutable, and decentralized ledger that can't be altered, deleted, or manipulated.

Average cost of a data breach in the United States from 2006 to 2023 (in million U.S. dollars)
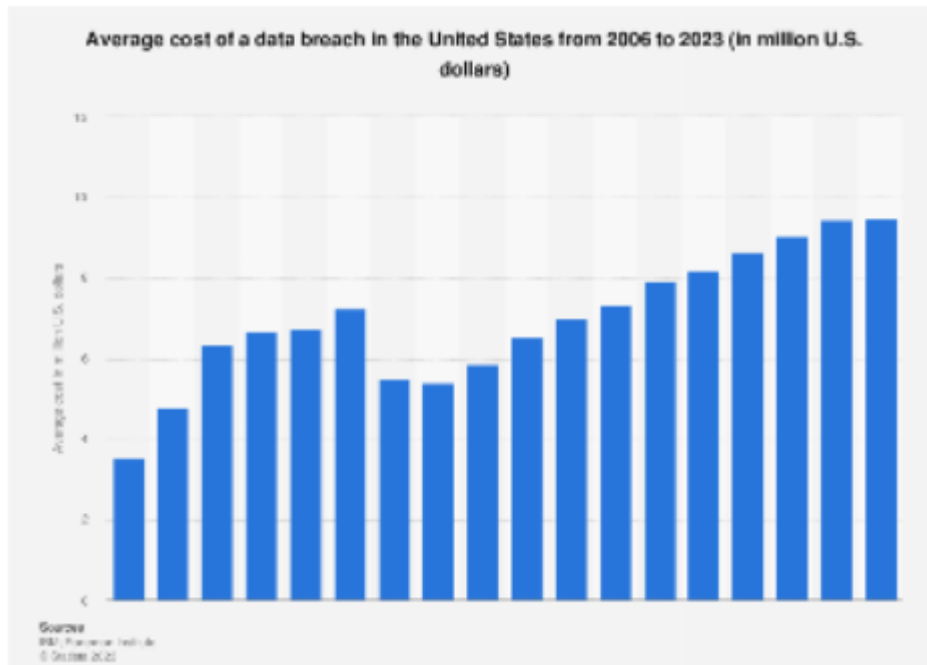
Transaction tracking involves following a transaction as it's included in a block and added to the blockchain. This is made possible by the transparency and immutability of the blockchain. Each transaction is broadcast to the network, and from there, it is included in the blockchain by miners.

Blockchain for government fund tracking using Hyper ledger.