Proposal

Problem Statement:- Blockchain networks like Bitcoin and Ethereum face challenges regarding transaction throughput and latency due to the consensus mechanism. This mechanism requires agreement among all peers in the network, leading to slower transaction processing times and limited scalability.

Objective:- The objective of this project is to implement and enhance the existing routing protocol, as proposed in the paper "MPCN-RP: A Routing Protocol for Blockchain-Based Multi-Charge Payment Channel Networks." We aim to achieve this by first implementing the existing routing algorithm and then enhancing it by incorporating a mechanism to prioritize nodes with a higher success rate in transaction forwarding. Additionally, we will conduct a comprehensive performance evaluation to analyze the communication overhead and computational costs associated with the proposed enhancements.

Methodology:-

1. Cloth Simulator
2. Research Paper(MPCN-RP: A Routing Protocol for Blockchain-Based Multi-Charge Payment Channel Networks)

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