Possible Research Collaborations

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Systematic Analysis of DLTs for a Specific Use Case

1. **Context:** Distributed Ledger Technologies (DLT);
2. **Problem:** What is the best DLT for a given use case?
3. **Contribution:**
    - Provide a map of the requirements of the DAPP to DLTs;
    - Deriving adaptable analytical model of DLT;
    - Systematic study of candidate DLTs, and finding the best configuration of DLT based on a layered model architecture;

Performance comparison of Ethereum and Hyperledger Fabric

1. **Context:** Currently, Ethereum and Hyperledger Fabric are used as the most popular private blockchains;
2. **Problem:** Changing quantified parameters in the blockchain systems may affect the performance.
3. **Contribution:** Deploying Ethereum and Hyperledger Fabric with different number of clients, nodes, transactions, and different configuration of consensus protocol to observe the effects on throughput, latency, storage overhead, etc. .