COMPUTER SCIENCE 3A MINIPROJECT

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OVERVIEW

- Problem identified
- Proposed project
- Project requirements
- Blockchain application
- Graph ADT application
- Data communication application
- System demonstration
- Conclusion

PROJECT REQUIREMENTS







GRAPH ADT USE

DATA COMMUNICATION BLOCKCHAIN TECHNOLOGY

PROBLEM IDENTIFIED



- Logistic value chain includes a lot of manual data entry and paper-based documentation.
- Lack of information transparency.
- Process is very tedious.
- Shortage of automated and digital business processes e.g. financial transactions, custom fees, transfer of ownership, arrival at export and import etc.

PROPOSED SOLUTION

SYSTEM OUTLINE

- Smart logistic information flow system.
- Use of a distributed ledger.
- Information transparency and source of truth to all stakeholders.
- Automated and digital business processes.

TECHNOLOGIES TO BE USED

- Blockchain technology
- Data communication between all stakeholders.
- Information flow using graph ADT approach

SYSTEM IMPLEMENTATION

Clients

Graph stores copies of the information

Information flow along all clients

Transaction validation by each client on the chain



