Blockchain Presentation

# Business Process

The business process I selected for my project is the physical delivery of products from seller to buyer through a delivery system.

My reasoning for selecting delivery as my business process is that it is something that all of us have used at some point, so there is a relatable understanding with how it works. There is already enough work done related to delivery, which provides me with a better understanding of how it could be implemented into an application.

# Business Process Modelled into Blockchain Application

The smart contract I designed will comprise of three parties, the buyer, seller and delivery.

# Blockchain Application Benefits

Common issues with deliveries include the timing and arrival of deliveries, and if the courier leaves the package in a compromising position that could lead to damage or theft. This application could help alleviate these issues by holding each party accountable for their part of the delivery as well as provide the buyer with a greater projection of the ongoing journey of their package and the time it would take to arrive. And so, if the delivery or package does not follow the agreed upon terms and conditions of the smart contract, then the party that broke the agreement would need to make amends.

# Literature Review

The literature reviewed for this report are Blockchain-based solution for proof of delivery of physical assets by Salah and Hasan (2018); Blockchain-based proof of delivery of physical assets with single and multiple transporters by Hasan and Salah (2018); and finally, Trading real-world assets on blockchain by Notheisen, Cholewa, and Shanmugam (2017).

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# Design

# Implementation Progress

# Project Timeline

# References

Hasan, H. R., & Salah, K. (2018). Blockchain-Based Proof of Delivery of Physical Assets With Single and Multiple Transporters. *IEEE Access*, *6*, 46781–46793. https://doi.org/10.1109/ACCESS.2018.2866512

Notheisen, B., Cholewa, J. B., & Shanmugam, A. P. (2017). Trading Real-World Assets on Blockchain. *Business & Information Systems Engineering*, *59*(6), 425–440. https://doi.org/10.1007/s12599-017-0499-8

Salah, K., & Hasan, H. (2018, June 18). *Blockchain-based Solution for Proof of Delivery of Physical Assets*. Presented at the International Conference on Blockchain, Seattle, USA.