Alpha Presentation
Shrink Reduction Using Blockchain

The Capstone Experience
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Project Overview

• Develop a blockchain system to track highly-perishable items and reduce shrink
• Create an iOS and web application to access the data
• Construct a notification system to alert users when products are close to expiration
• Implement a dashboard to display product loss statistics
System Architecture

Interfaces

- Azure Active Directory
- DLT Watcher
- Service Bus
- API
- Transaction Creator
- Ethereum
- SQL Azure
Architecture Left to Do

Need to integrate web and iOS apps with Azure API

Interfaces

Service Bus

API

Azure Active Directory

DLT Watcher

Transaction Creator
What’s left to do?

• Integrate iOS and web apps with the Azure API and Azure SQL database
• Complete QR code scanning system
• Implement alerts page for the iOS and web apps
• Develop web app loss statistics page using PowerBI
• Create future arrivals and departures page on the iOS and web apps
Questions?