From Students…
…to Professionals

Beta Presentation
Shrink Reduction Using Blockchain

The Capstone Experience
Team Meijer
Moritz Greiss
Lucas Banks
Mohammad Yousafzai
Matthew Wilimberg
Phillip Litchfield

Department of Computer Science and Engineering
Michigan State University
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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

- Apple
- Azure Active Directory

Middleware

- PHP

API

Service Bus

- DLT Watcher
- Ethereum

Transaction Creator

SQL Azure
iOS QR Scanning and Product Info
iOS Shipping Screen
Web Application Contract Create Page

Add Product to the Supply Chain

Product Name: Apples - Golden
UPC: 0000000000005
Expiration month: January
Expiration Day: 1
Expiration Year: 2018
Crate: 

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Web Application Loss Page
What’s left to do?

• Improve the functionality of the application interfaces
• Improve the look of the user interfaces
• Add more statistics to the loss page
Questions?