Section 1: Week 3: BlackBean Tea Outline

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# Black Tea Assignment Outline

## I Analyze Current Business

1. 20 stores expanding to 60
2. POS at each location NOT automated upload
   1. Potential IoT and Edge solution
   2. Manual process with excel replace with ERM
3. Desires
   1. Centralized inventory management is complex
   2. Business Intelligence for targeted advertisement
   3. Optimize multi-warehouse storage of fruit (multi-tiered caching)
4. Assumptions
   1. Need tooling to centralize heterogeneous sources
   2. Employees are retail, not technology experts

## II Technology Direction

1. Move to centralized management of data
2. Remove manual processes and replace with continuous IoT network
3. Streamline business decisions with inventory, sales, and marketing in single pane

## III Tooling Improvements

1. Connect the POS to Mobile Device Management (MDM)
2. Leverage edge connection to centralized cloud system
3. ETL ingestion into { MLaaS and ERM/OLAP }
4. Web Portal to view ML predictions and BI intelligence dashboards

# IV Research Potential Solutions

## System 1: Public Cloud Centric

## System 2: IoT Edge Centric

## System 3: ???

# V Recommended Path Forward