MICHIGAN STATE
U N I V E R S I T Y

Alpha Presentation
Reducing Shoplifting Using Machine Learning

The Capstone Experience

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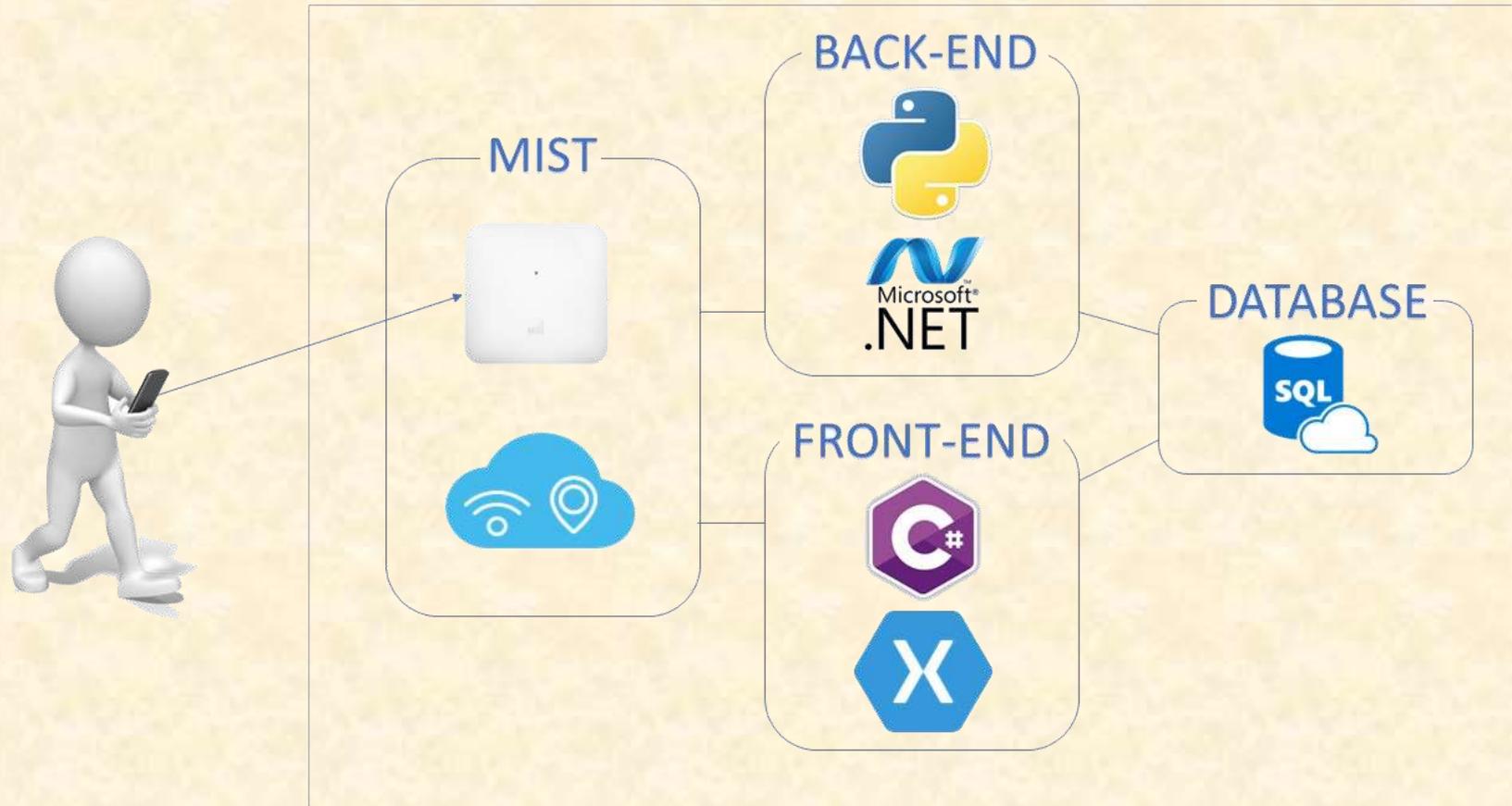Michigan State University
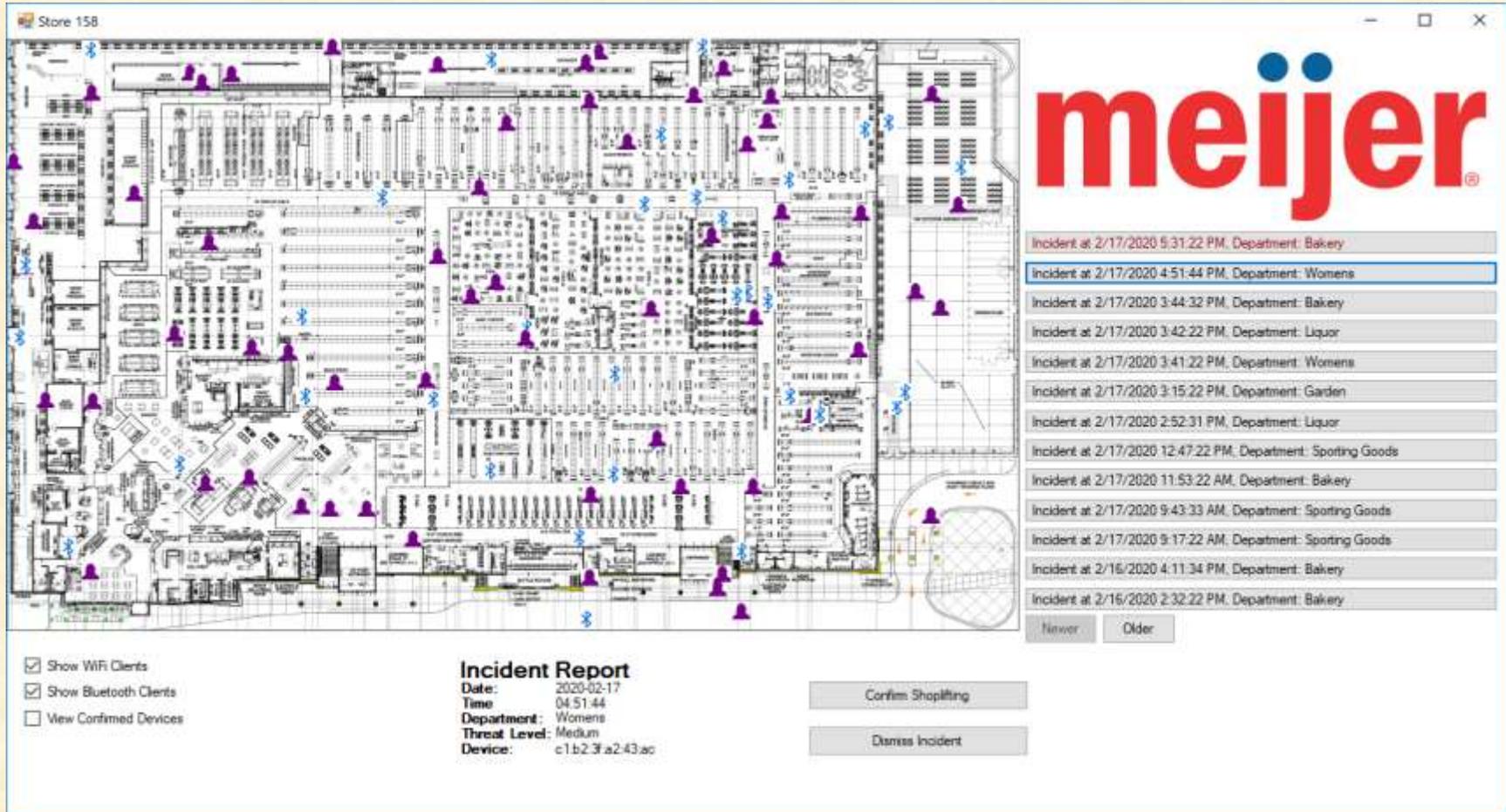Spring 2020

Project Overview

- Monitor shoppers with Mist access points

- Look for shoplifting patterns

- Identify potential shoplifting incidents

- Send alerts to prevent the incident

System Architecture

Desktop App

Android Application Notification
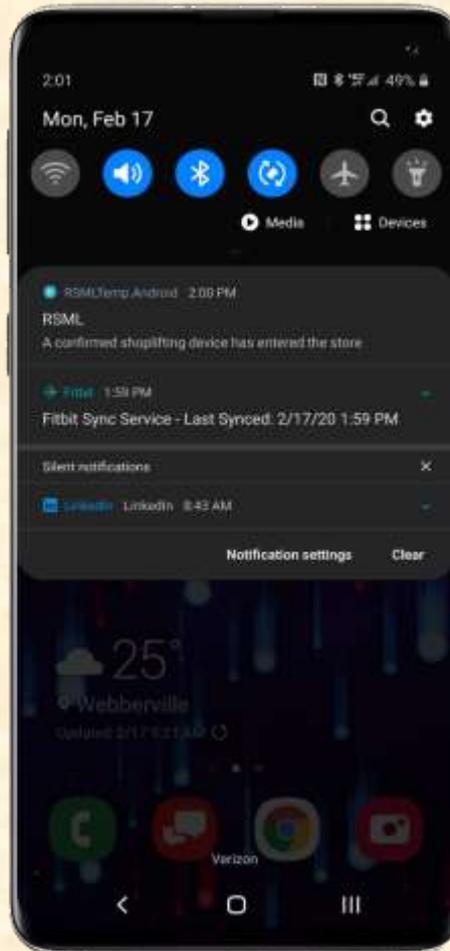
iOS Application Unresolved Page
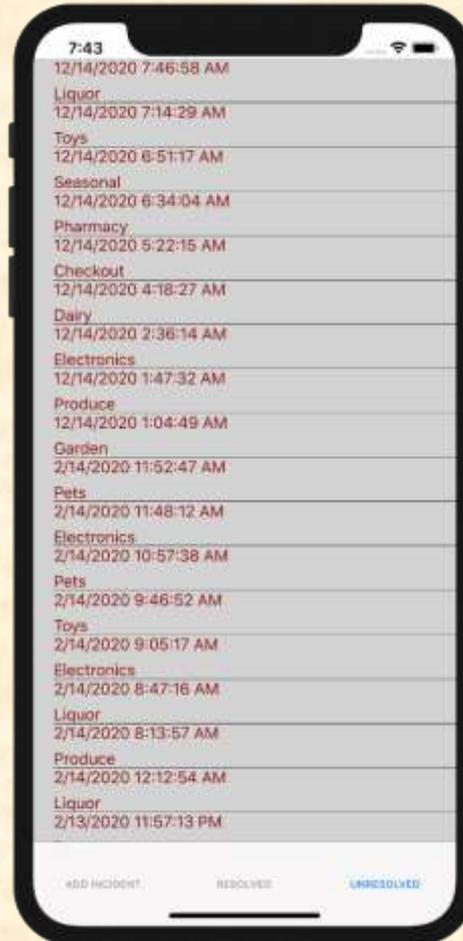
Android Resolve Incident Page

What's left to do?

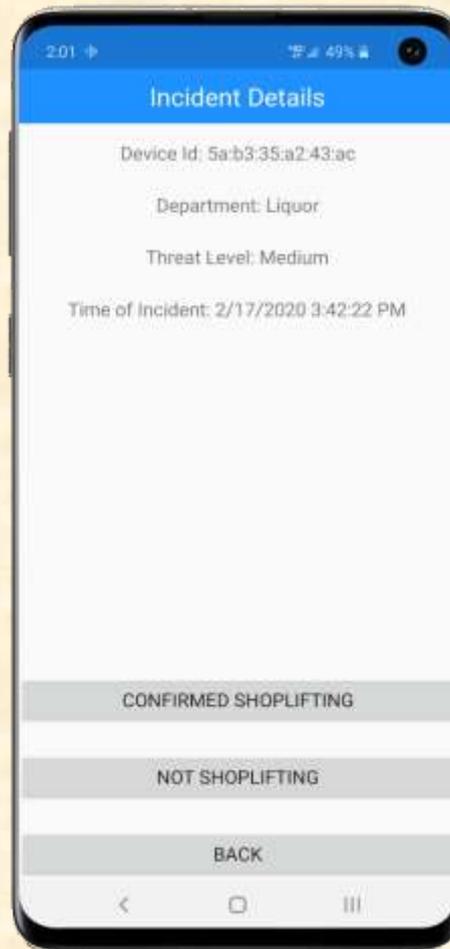- Add additional features to the desktop app such as zone monitoring

- Optimize each mobile app towards their respective platform

- Make the system useful for multiple locations

- Categorize confirmed cases for future machine learning analysis

Questions?