Alpha Presentation
Greenfields Labs SHARED Locker System

The Capstone Experience
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Project Overview

- Cross platform app Android/iOS/Web
- Check-in/check-out locker items
- RGB led status indicator
- Automated locker unlock
- Showcase items in locker
- Support for multiple lockers
- Admin metrics
System Architecture

Event Stream (AWS Kinesis) → Reservation DB (AWS RDS) → SnipeIT DB (AWS RDS)

Microservices

1. Notification Service
2. Reservation Service
3. Authentication Service
4. Asset Service
5. Metrics Service

Raspberry Pi

Locker

Mobile React Native App

Web React Native App

SnipeIT
3rd Party Asset Management

Raspberry Pi

SnipeIT DB (AWS RDS)
Mobile App Login and Menu
Mobile App Locker Info Page
Web App Basic Dashboard
Web App Lockers Functionalities
What’s left to do?

- Authentication Service
- Asset Service
- Notification Service
- Reservation Service
- Metrics Service
Questions?