Alpha Presentation
Audit Management System

The Capstone Experience
Team United Airlines Quality Assurance

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Spring 2022
Project Overview

• Modernize the audit process through an iOS application

• Allow managers to
  ▪ Assign audits to their auditors
  ▪ Choose specific checklists to be completed

• Allow auditors to
  ▪ Complete their assigned audits
  ▪ Upload audit-related images
  ▪ Generate audit documents based on the audit data
System Architecture

Front-end
- Xcode
- SwiftUI
- PDF

Back-end
- Single sign-on
- Web Scraping
  - Python
  - FAA Website
- Audit data templates
- United Database

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Edit Audit
Audit Information

Audit Details:

Date: Feb 17, 2022

- Gilbert Benson
- Michigan
- Audit - N783
- 837921A
- North Air
- 29371-82

- Left airplane wing is not lifting correctly

Audit Status:

Open
Technical Data

| PART NUMBER/AIRCRAFT/ENG EFFECTIVELY NUM. | 7835-29 |
| MANUFACTURER | Doeing |
| ATA/DOCUMENT ID | 87 |
| REV. LEVEL | 2 |
| REV. DATE | 10-19-2020 |
Checklist
What’s left to do?

• Continue integrating front end with back end
• Create admin view for admin capabilities
• PDF generation
• Integrate single sign-on with our user pool
Questions?