

**MICHIGAN STATE**  

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**UNIVERSITY**

# Alpha Presentation

## Mobile GSAP and QC Audit Center v2.0

**The Capstone Experience**  
Team United Airlines Airport Operations

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*From Students...  
...to Professionals*

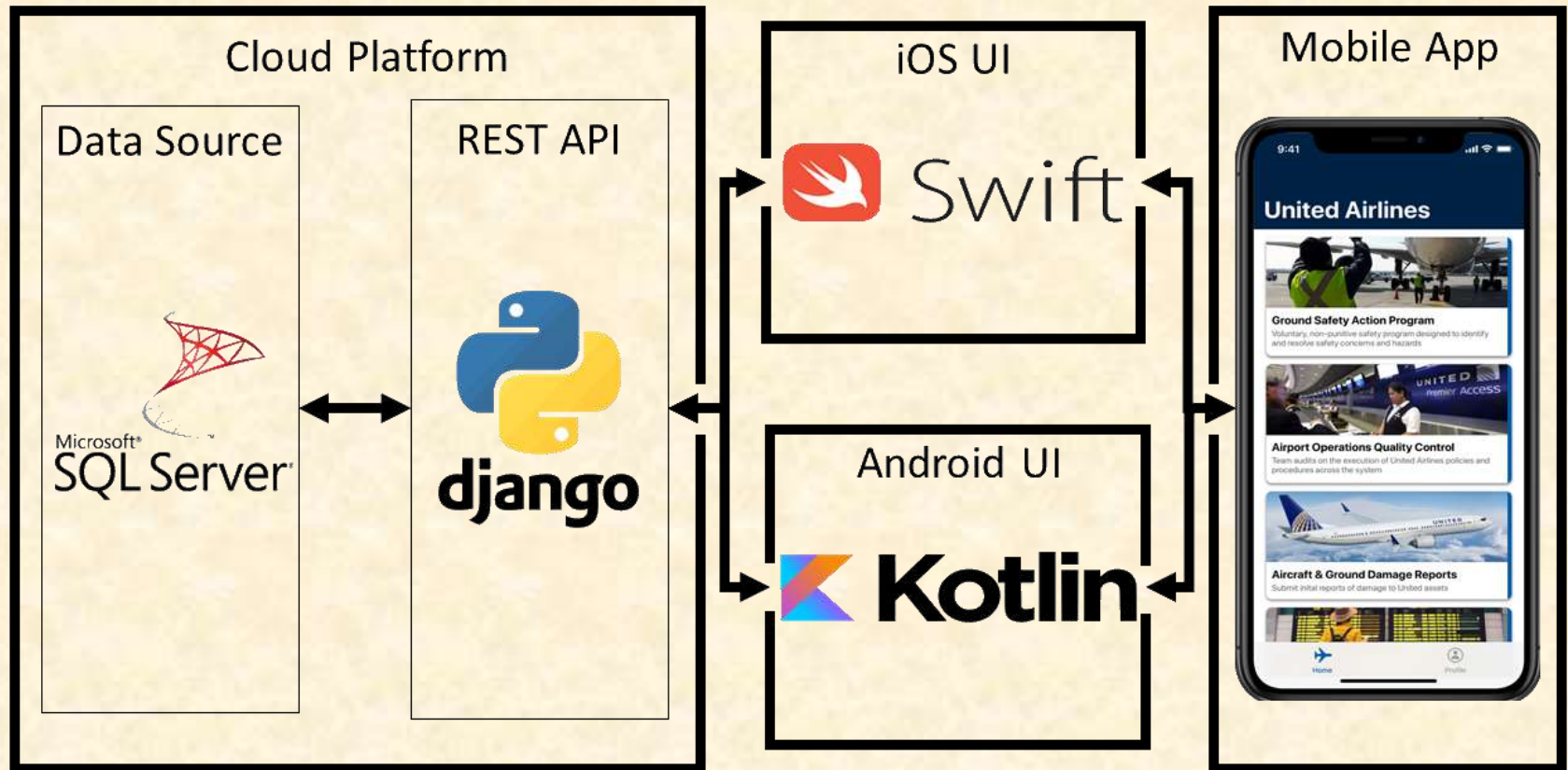
Department of Computer Science and Engineering  
Michigan State University  
Fall 2020

# Project Overview

- Build second version of mobile app that allows employees to fill out reports or audits
- Add three more reports/audit forms for extra functionality
- Create additional functionality to forms to allow more information to be recorded
  - Pictures, videos, auto-fill data, etc.
- Connect to United's new database
- Redesign user interface for ease of use



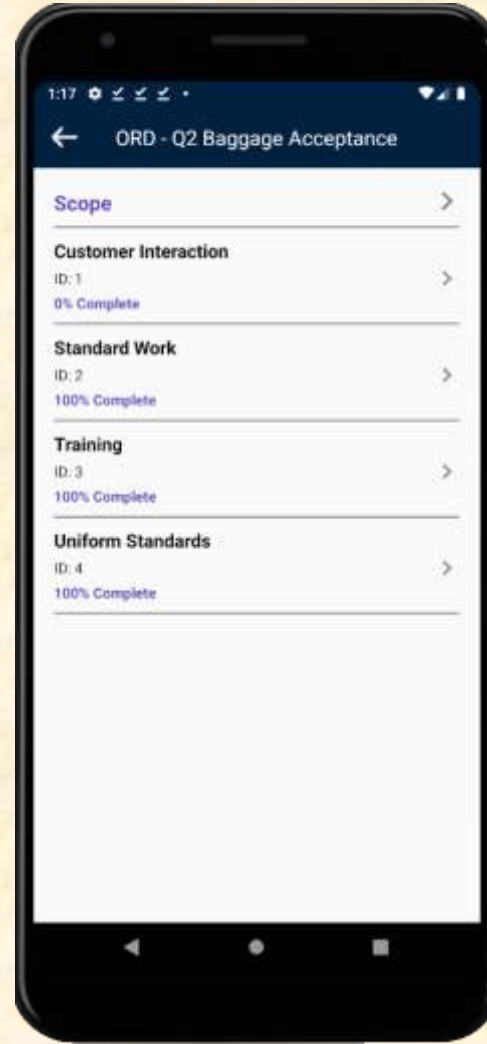
# System Architecture



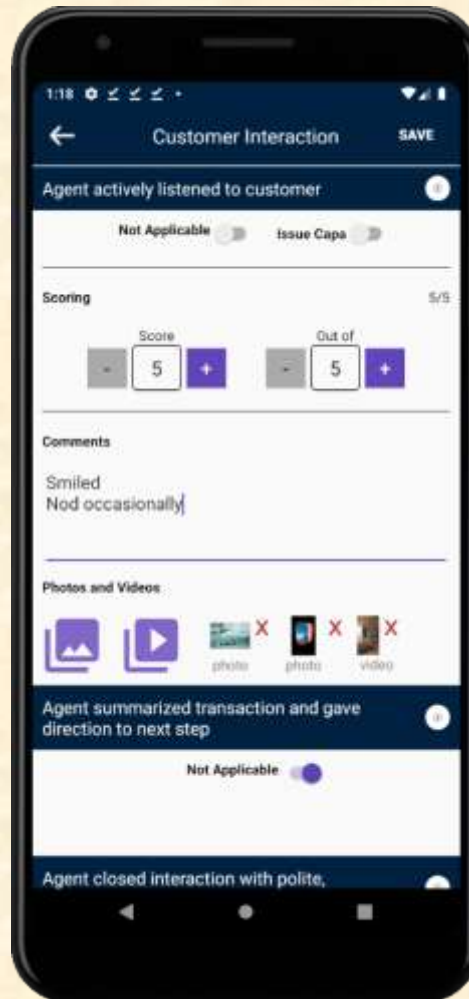
# GSAP Report Information

The image displays two sequential screenshots of a mobile application interface for reporting an incident. Both screens are titled "New Report" and feature a dark blue header with a back arrow and the title. The left screen shows the "Flight Information" section, which includes fields for Aircraft Type (Airbus A319-100), Aircraft Number (4866), GMT Scheduled Date (Oct 12, 2020), Departure Airport (LAN (Lansing, MI, US)), and Destination Airport (JFK (New York, NY, US)). A "Next: Conditions" button is visible at the bottom. The right screen shows the "Incident Information" section, which includes a toggle for "Issue reported immediately?", Incident Station (MIC (Minneapolis)), Work Area of Incidence (Airport: Jet Bridge), and Equipment Damage (Aircraft Equipment: None). A "Next: Narrative" button is visible at the bottom.

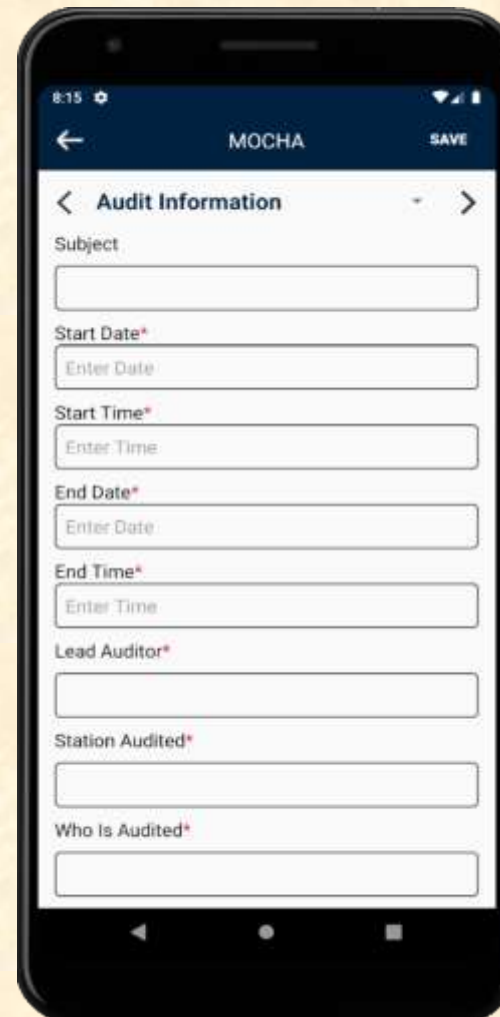
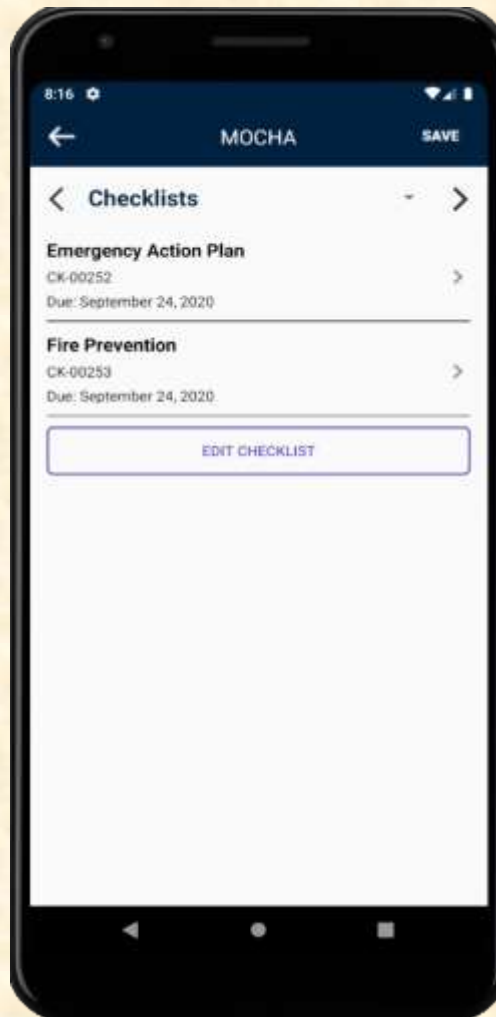
# QC Audit Form Reports



# QC Audit Customer Interaction



# MOCHA Report



# What's left to do?

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- Connect rest of the front-end forms to back-end database
- Work with United to fill out empty database tables
- Work with UX team for redesigning select forms after design is finalized
- Deploy API on United Server





# Questions?

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