

MICHIGAN STATE
UNIVERSITY

Beta Presentation

Safety Reporting and QC Audit

Center Mobile App
The Capstone Experience

Team United Airlines Airport Operations

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From Students...
...to Professionals

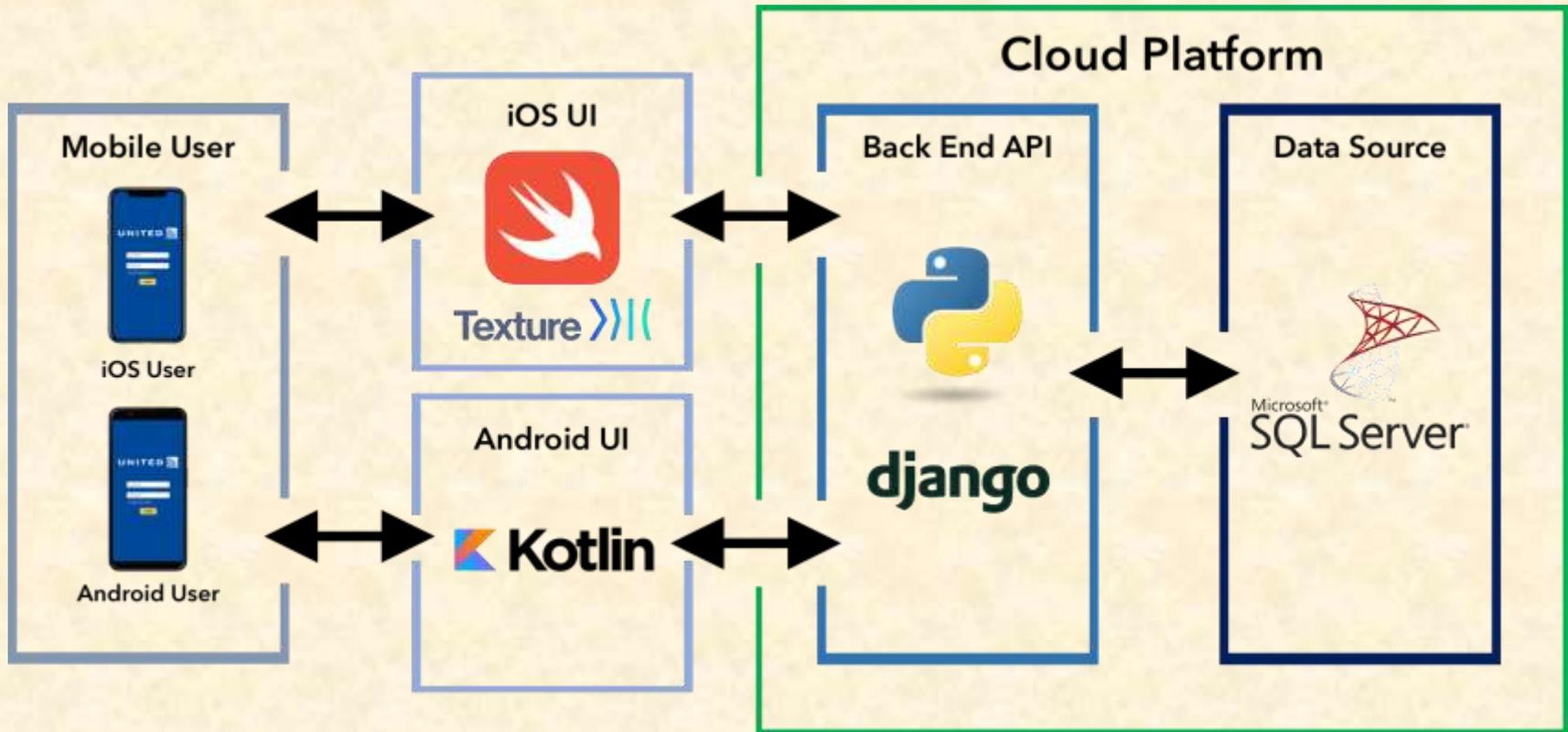
Department of Computer Science and Engineering
Michigan State University
Spring 2020

Project Overview

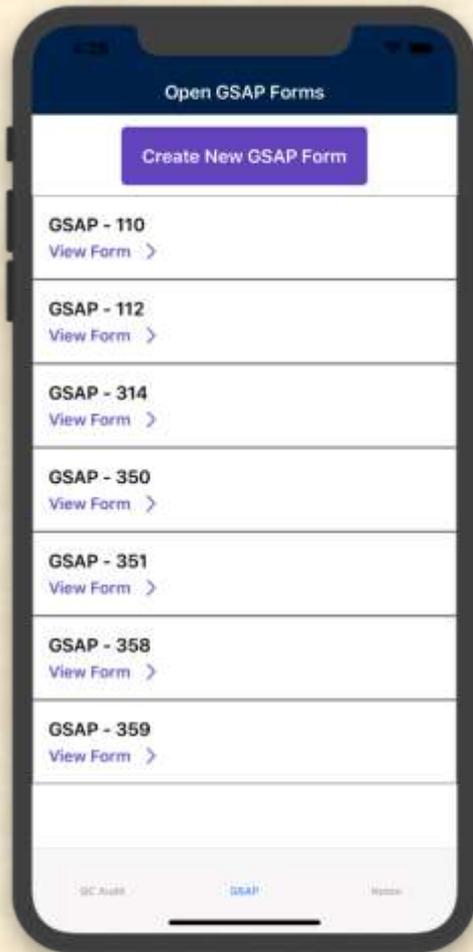
- Safety report forms require a computer to complete
- Quality control audits are filled out on paper and later entered in manually on a computer
- Both processes take extra time out of a user's work day
- Our mobile application allows users to track, manage, and submit forms in real time on the ground



System Architecture



GSAP Form Selection

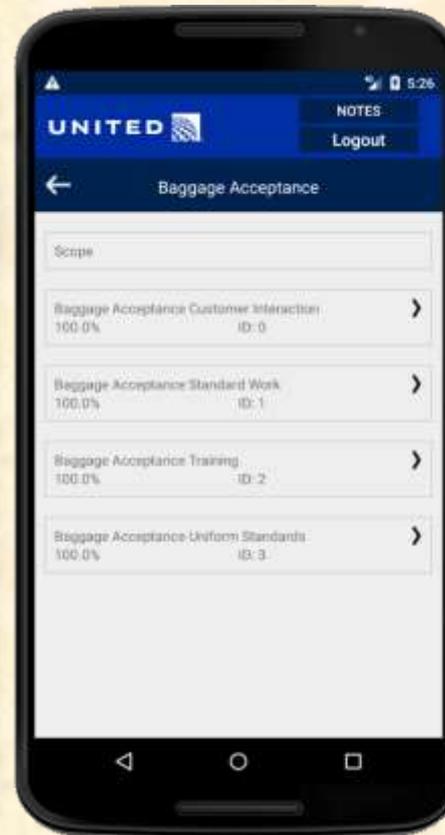
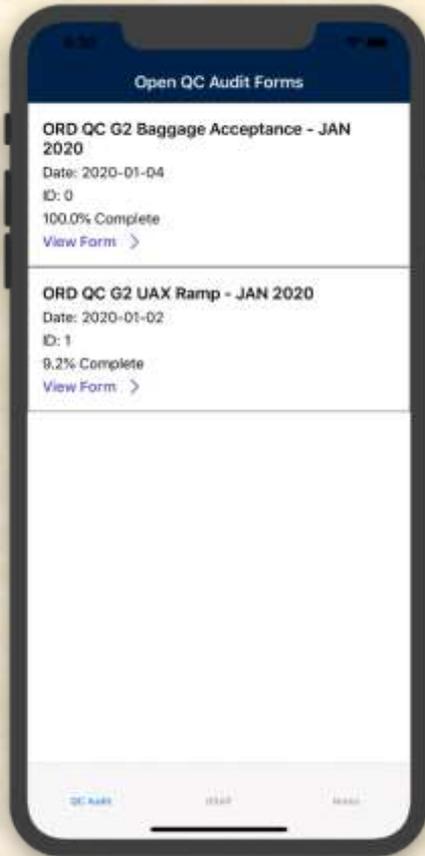
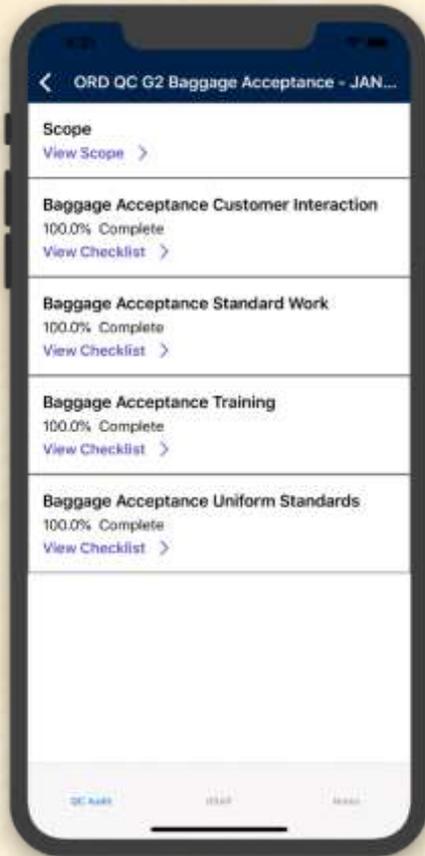


GSAP Fields

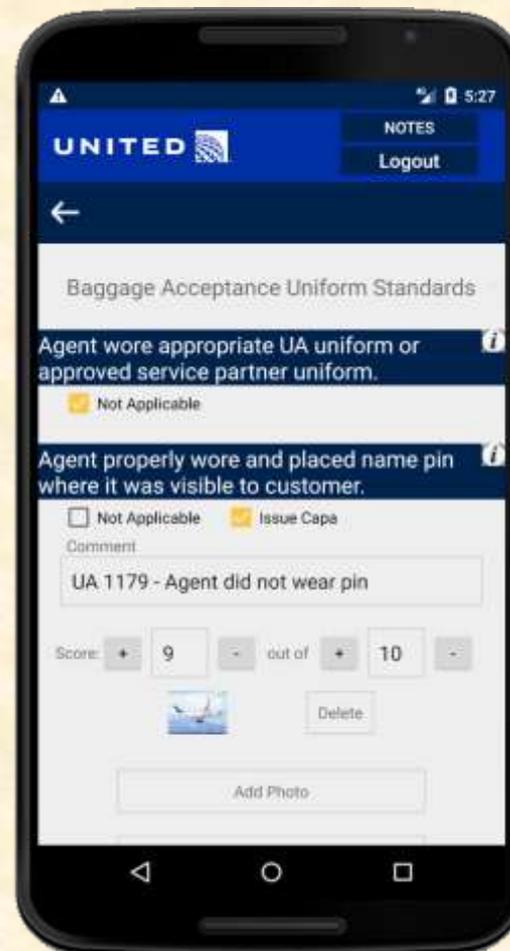
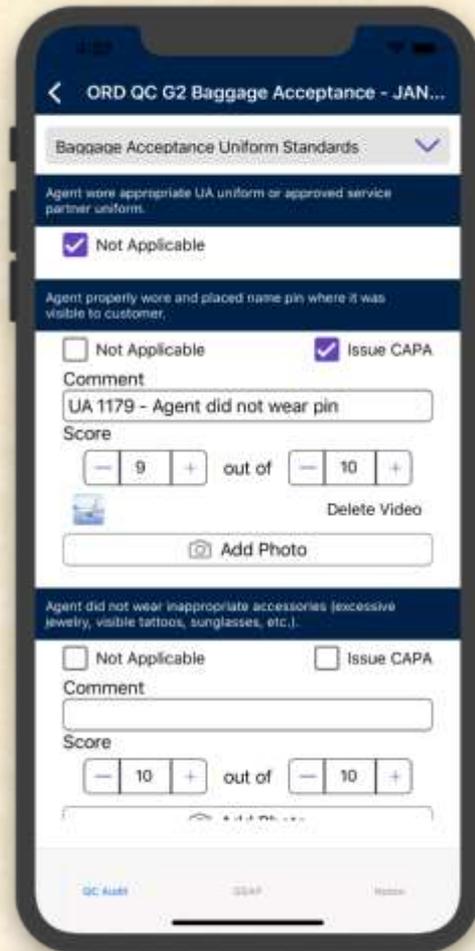
A smartphone screenshot of the 'GSAP - 110' form. The header includes a back arrow and the title 'GSAP - 110'. Below the header is a section titled 'Flight Information' with a dropdown arrow. The form contains four input fields: 'Aircraft Type*' with the value 'A319', 'Flight Number' with 'UA1179', 'Departure Airport*' with 'ORD', and 'Destination Airport*' with 'IAH'. At the bottom of the form are two buttons: a purple 'Save and Continue' button and a grey 'Save and Exit' button. The bottom of the screen shows a navigation bar with 'GSAP' in the center.

A smartphone screenshot of the 'GSAP Form'. The header features the 'UNITED' logo and a 'Logout' button. Below the header is a back arrow and the title 'GSAP Form'. The form is titled 'Flight Information' and contains several input fields: 'Aircraft Type*' with 'A319', 'Aircraft Number*' (empty), 'Flight Number' with 'UA1179', 'Departure Airport*' (empty), and 'Destination Airport*' (empty). The bottom of the screen shows an Android-style navigation bar.

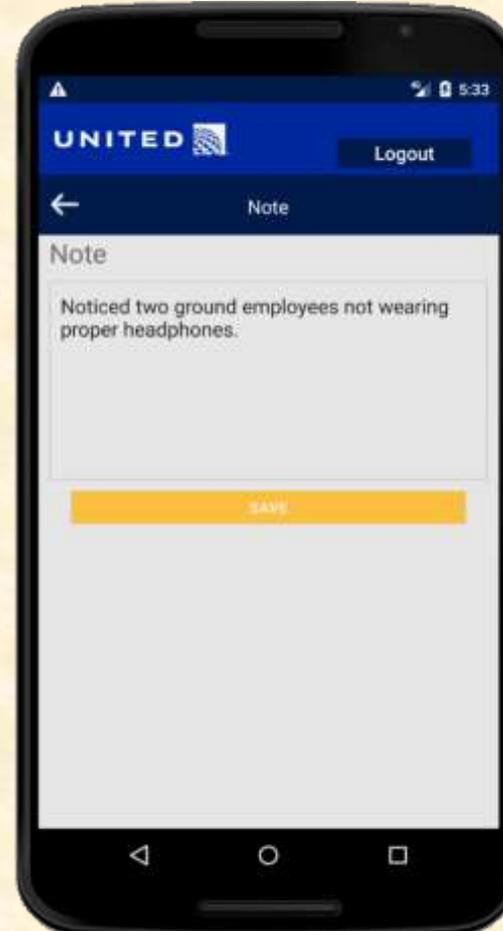
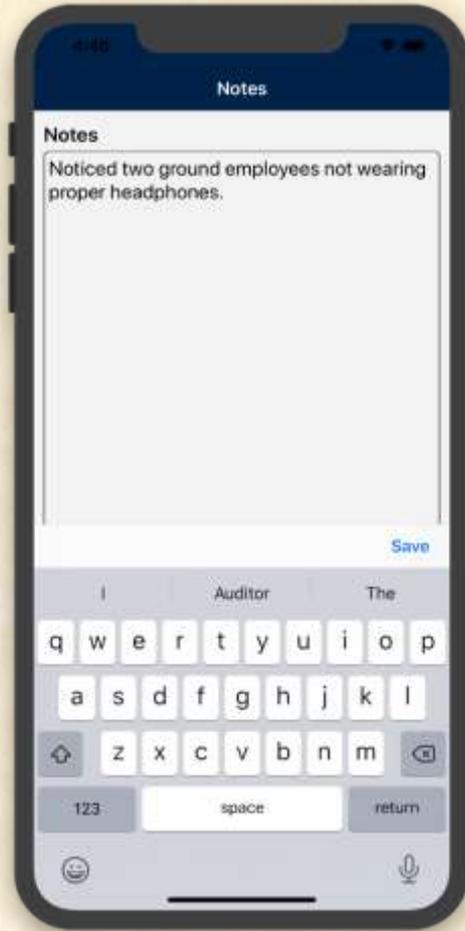
QC Audit Form And Checklist Selection



QC Audit Fields and Photo Upload



QC Auditor Notes



What's left to do?

- Updating the UI to fit United's standards
- Documentation
- Designing an app icon
- Bug fixes



Questions?

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