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

Alpha Presentation
Virtual Reality Aircraft Walkaround

The Capstone Experience

Team United Airlines Safety

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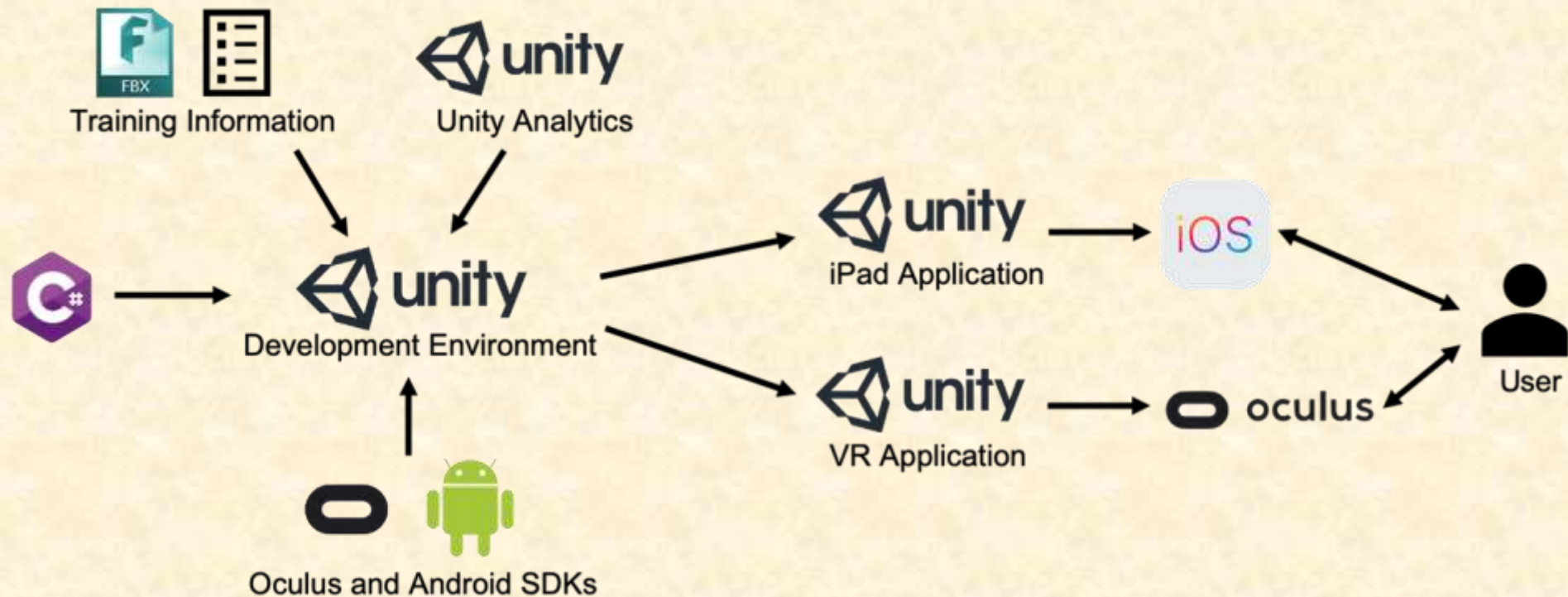Spring 2020

From Students…
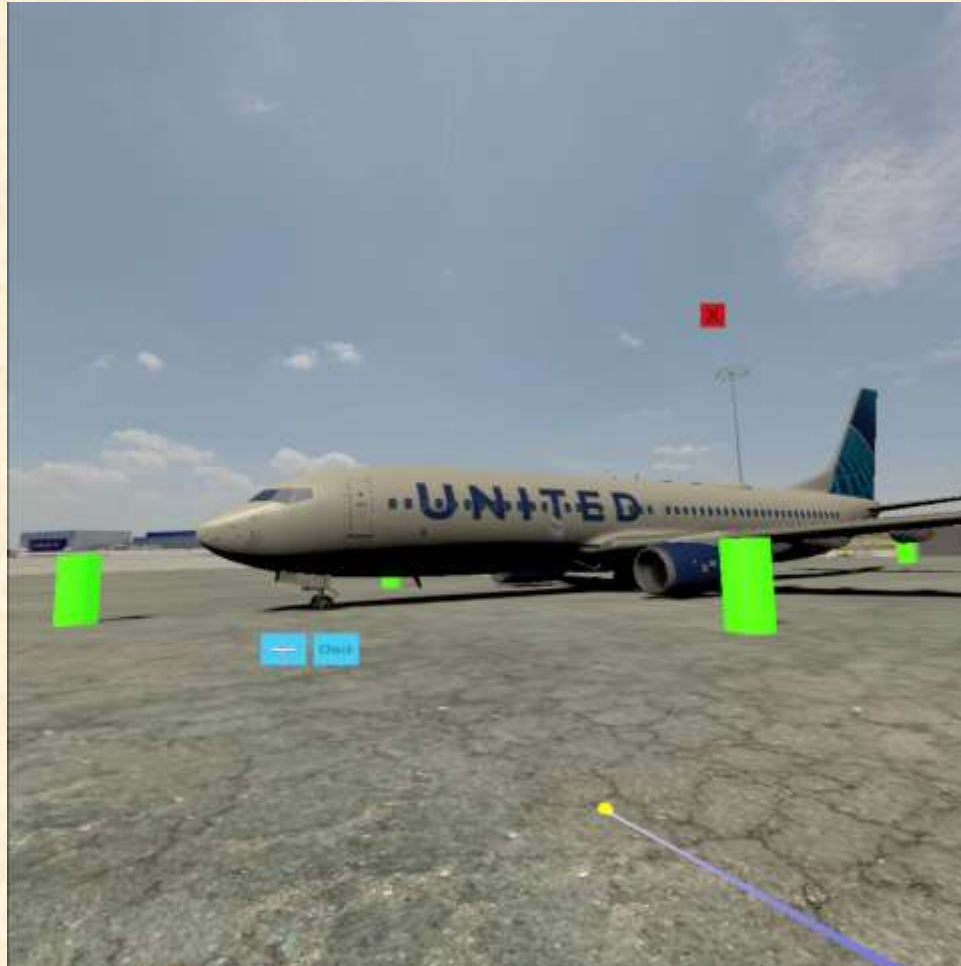   *…to Professionals*

Project Overview

- Train technicians to spot aircraft defects
- Training mode teaches what to look for in various locations on the airplane
- Testing mode grades ability to accurately spot defects on the airplane
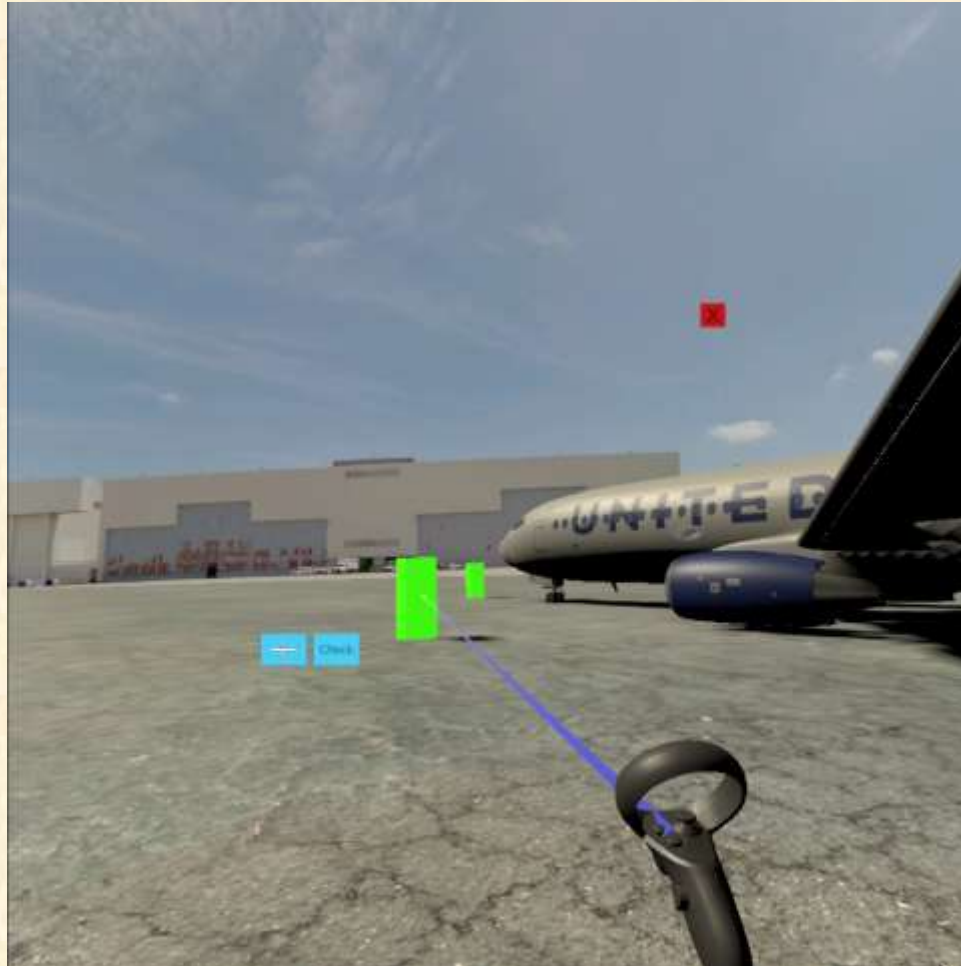- Available on Oculus Quest and iPad

System Architecture

View of Boeing 737 Model in VR

Teleportation in VR

Defect Marking on iPad

Navigation Menu on iPad

What's left to do?

- Expand library of aircraft and defects
- Scoring system
- Defect marking and detecting system
- Add audio and text popups to training mode
- User data tracking
- Navigation tutorial

Questions?