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

Beta Presentation
Gate Hazard Geo-Mapping

The Capstone Experience

Team United Airlines Airport Operations

Zachary Yarost
Mihir Bhadange
Gitika Kumar
Alex Brandt

Department of Computer Science and Engineering
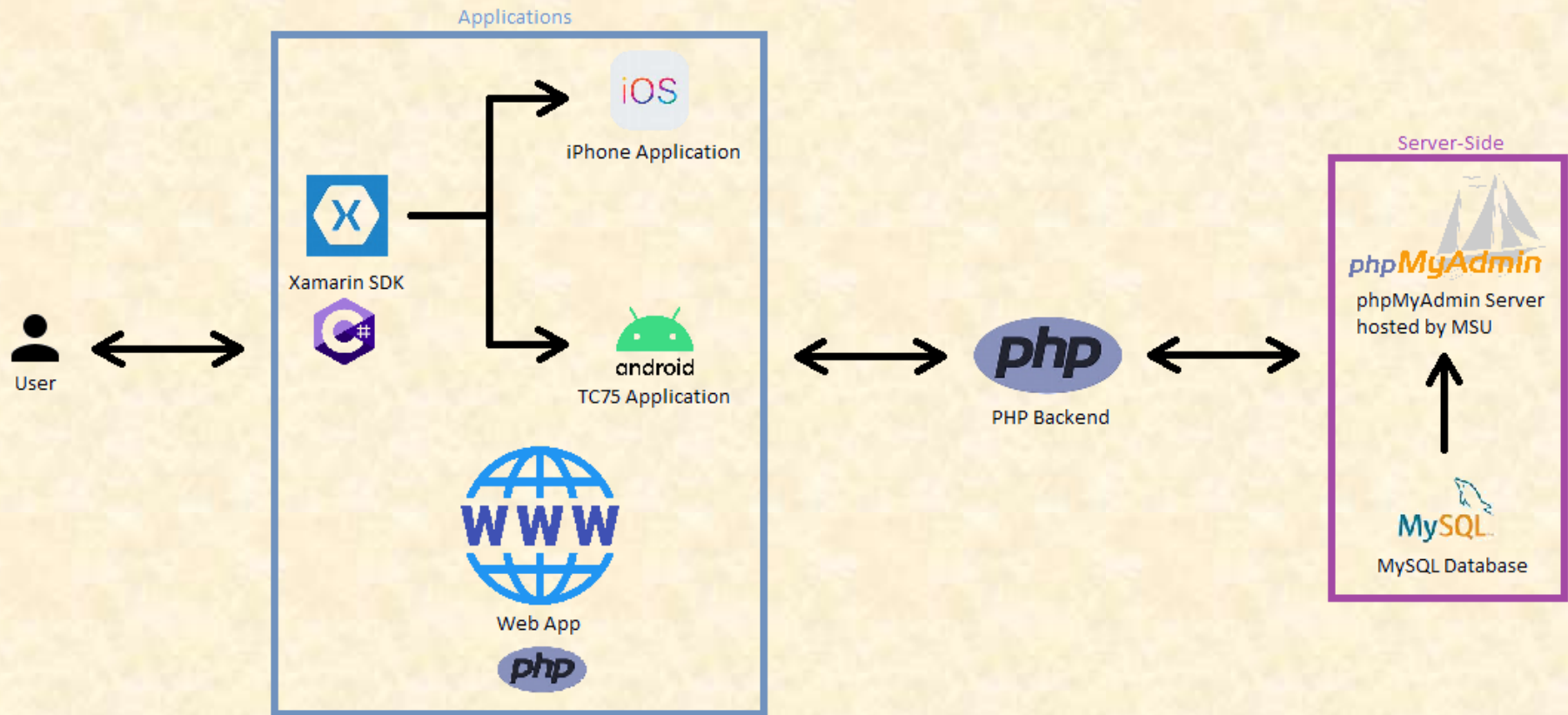Michigan State University

Fall 2021

From Students…
…to Professionals

Project Overview

- United Airlines is a leading American airline headquartered in Chicago, Illinois.
- United Airlines Safety & Compliance staff record data on hazards faced at each airport gate.
- Our software unifies the hazard-data recording process, visualization, and allows geo-mapping of the entries.
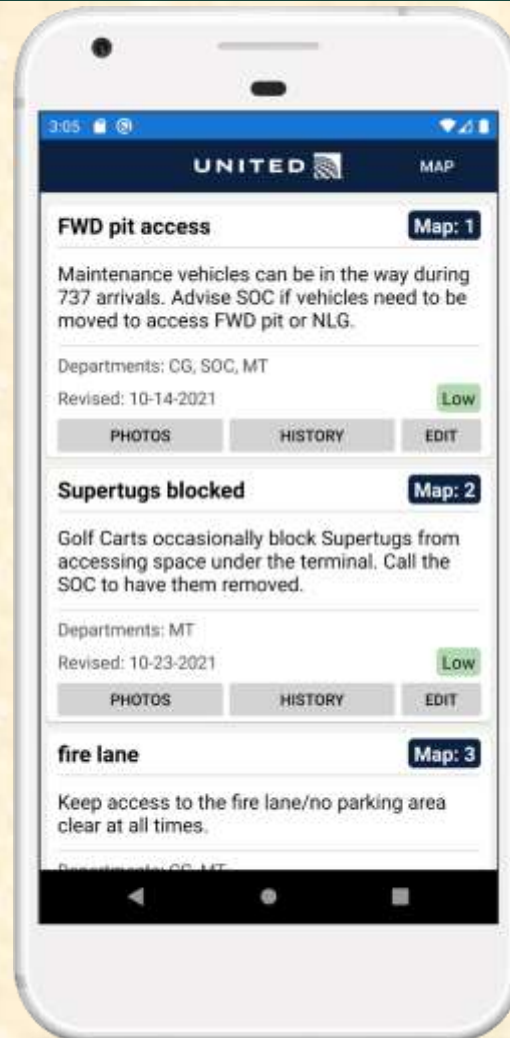- This is accomplished through an Android and iOS mobile app, as well as a website.
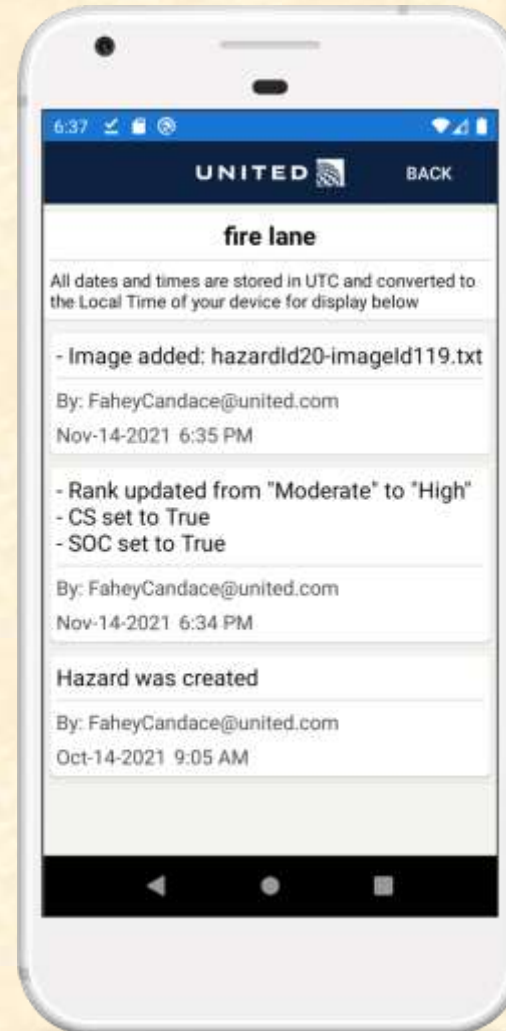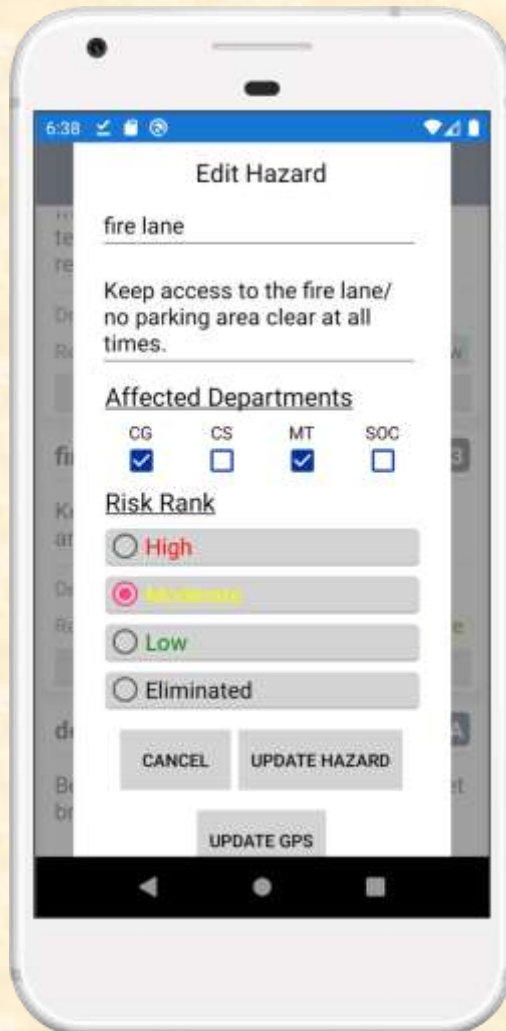
System Architecture

Main Map View

Hazard List View

Edit & History Pages

Website – Add Hazard Page

What's left to do?

- Features
  - None

- Stretch Goals
  - Companion AR mobile app

- Other Tasks
  - Transfer backend to AWS
  - Retain website data entry fields between screens

Questions?