MICHIGAN STATE UNIVERSITY

Alpha Presentation Gate Hazard Geo-Mapping

The Capstone Experience

Team United Airlines Airport Operations

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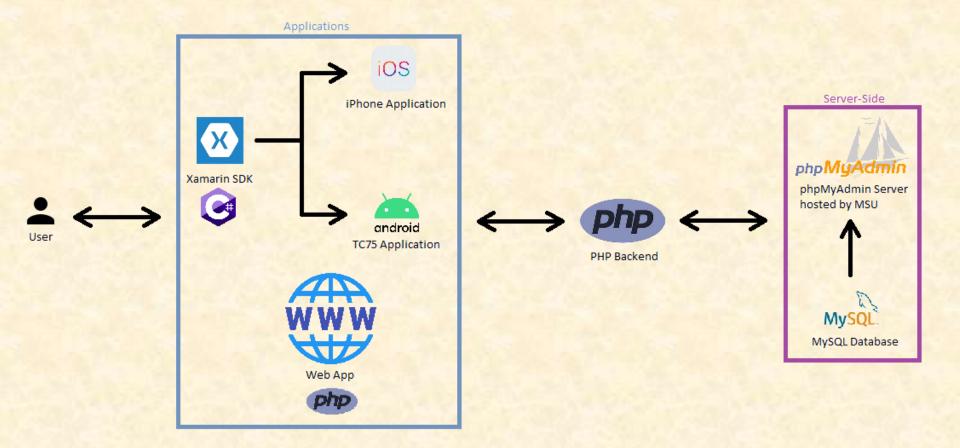
Fall 2021



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.

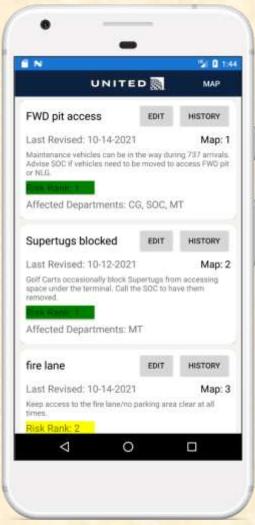
System Architecture



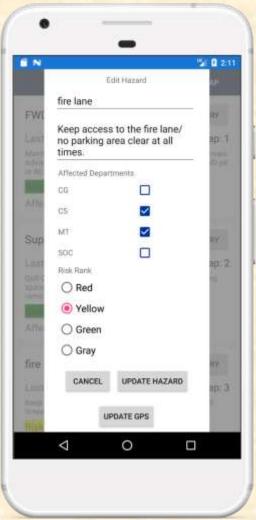
Main Map View

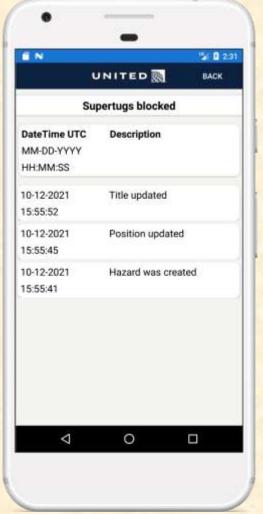


Hazard List View

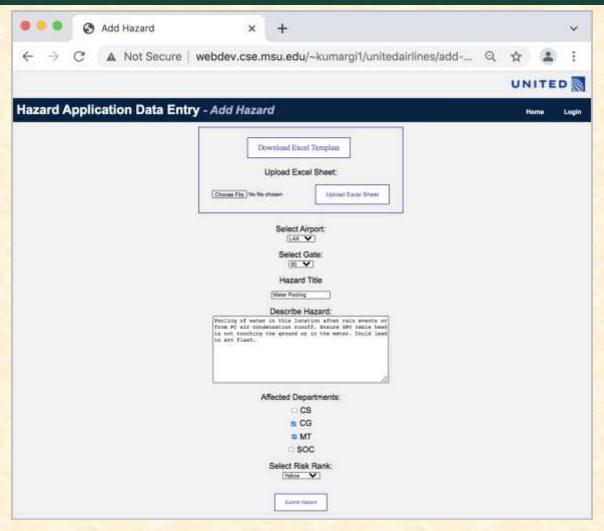


Edit & History Pages





Website – Add Hazard Page



What's left to do?

- Custom pins on iOS
- CSV upload error handling
- CSV upload change log implementation
- Printing tables on website
- Login on mobile and website
- Mitigate against any SQL injections

Questions?

