SWEN325 App Description

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Name of App: Asset Recorder (Gadget Inspector)
Team Size: 1

Background

Asset management is a way to track and document assets owned by a company/organisation. Many organisations do not do asset management because it is expensive/time consuming. Manual asset data entry is not uncommon and has many potential problems, these include

- problems with data entry (mistyped barcodes etc)
- interrupting work while details are recovered from the assets on site
- large amounts of time for each asset

Vison

1. App concept: A mobile device application that uses attached sensors (GPS, Camera) to capture information about an asset and make the manual process of taking asset information much quicker and easier.

2. Key Features: GPS information taken for the assets, time and date of the asset inspection, photos of key points of information for the asset(Asset barcode/Serial number, model number, general appearance), saving assets to the cloud

3. Visual design:

Pages

- Previous Asset inspections
- Add new Asset
    o Location (GPS + Map)
    o Time (System time)
    o Asset Type (? Dropdown/optional)
    o Asset Id Photo & Text
    o Serial Number Photo & Text
    o General Asset Photo(s?)
- Upload Asset Inspections (firebase/postgresql?)
- (Optional) Login page to allow for asseter ID to be added to inspection
- Ideally the Photo will be a separate screen which acts like a camera app, returning the image

Technical challenges

- Using the camera and GPS to take in information could be difficult
- Uploading the asset inspections to firebase/postgresql could also be complicated

Expected time to complete

There is a lot of uncertainty about the project, I expect that this project could take 40+ hours depending on complications. There will likely be additional challenges to have the program working on an emulated device, and trying to manage connections to the cloud for persistence, along with styling