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Device Logger

Description

The app tracks the device checkout from inventory in testing teams. The app removes the dependency on a physical doc to sign in whenever team members check out devices.

Intended User

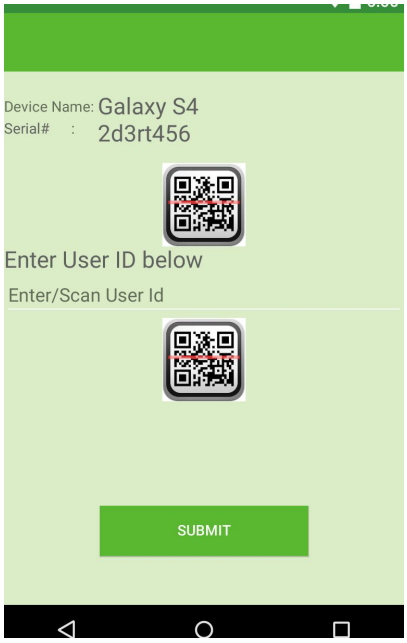
The intended users are any team members who would like to have a simple tracking system with a dashboard to see the device status currently.

Features

- Saves team from maintaining a physical doc to track checkout.
- Scanning functionality makes it simple for tracking.
- Simple dashboard via app screen or simple html page reading status from firebase.

User Interface Mocks

Screen 1



Home screen to submit device checkout log.

Key Considerations

How will your app handle data persistence?

I will be using Firebase for data persistence.

Describe any corner cases in the UX.

Device not available in inventory list
Device checked out but not returned, now a new user is trying to check out the same device.

Describe any libraries you'll be using and share your reasoning for including them.

Firebase to sync and save data, create users to restrict access to other teams inventory.
Will use the barcode scanning library.

Next Steps: Required Tasks

Task 1: Project Setup

Tasks for setting up the project:

- Configure Gradle to include Firebase jar
- Configure Gradle to include barcode scanner jar
- Configure Gradle to support Mockito for Test driven development (will try to add test cases if possible. Trying to implement my TDD understanding)

Task 2: Implement UI for Each Activity and Fragment

List the subtasks:

- Build UI for MainActivity to scan devices
- Build UI for listing device status

Task 3: Wire Up scanning functionality

Make MainActivity call barcode scanning functionality by including dependency jar. (user should not require to install another app to scan)

List the subtasks.

- Add dependency
- Call by intent and expect device serial number to return.

Task 4: Wire Up firebase functionality

Connect to Firebase and:

- Search for existing devices after every scan to ensure it belongs to database.
- Update the new user name who checked out the device.