Deliverable 4

Team Information

Team Name: Centurion

Project Name: Centurion Home Control System

Team Members:
Andres Vargas(N01359071), Ibrahim Abdiaziz(N01394807), Zachary Symons(N01390593),
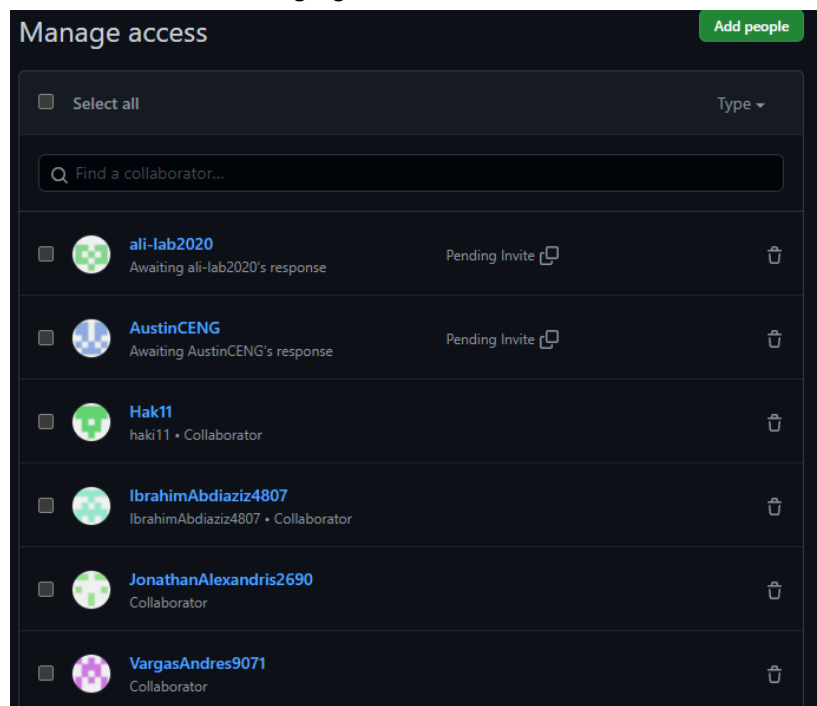Jonathan Alexandris (N01352690)

Table of contents

Effort

Name	id	Signature	Effort
Zachary Symons	N013905932	ZS	100%
Andres Vargas	N01359071	AV	100%
Ibrahim Abdiaziz	N01394807	IA	100%
Jonathan Alexandris	N01352690	JA	100%

Github Link
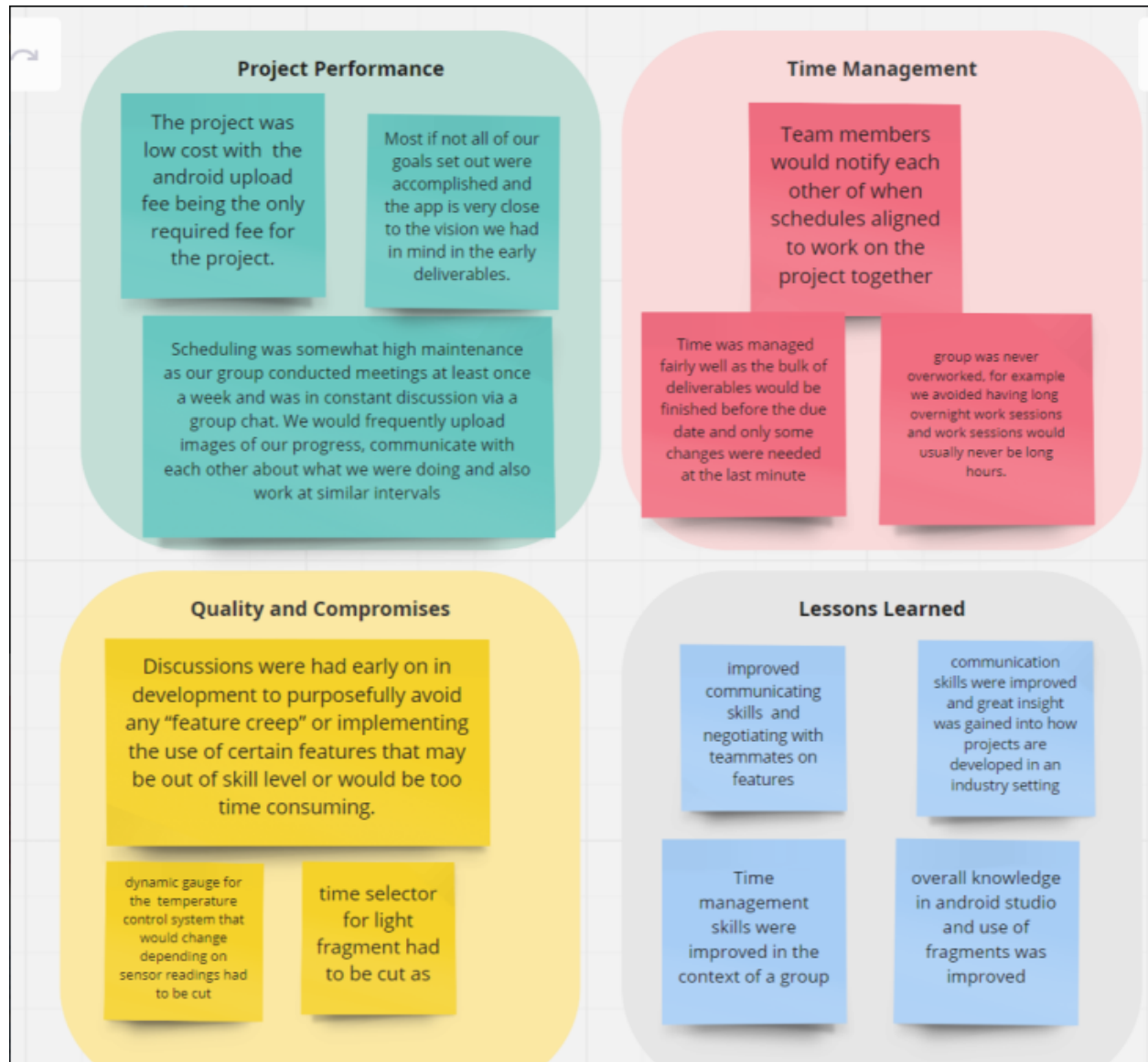
- https://github.com/ZacharySymons-n01390593/Centurion
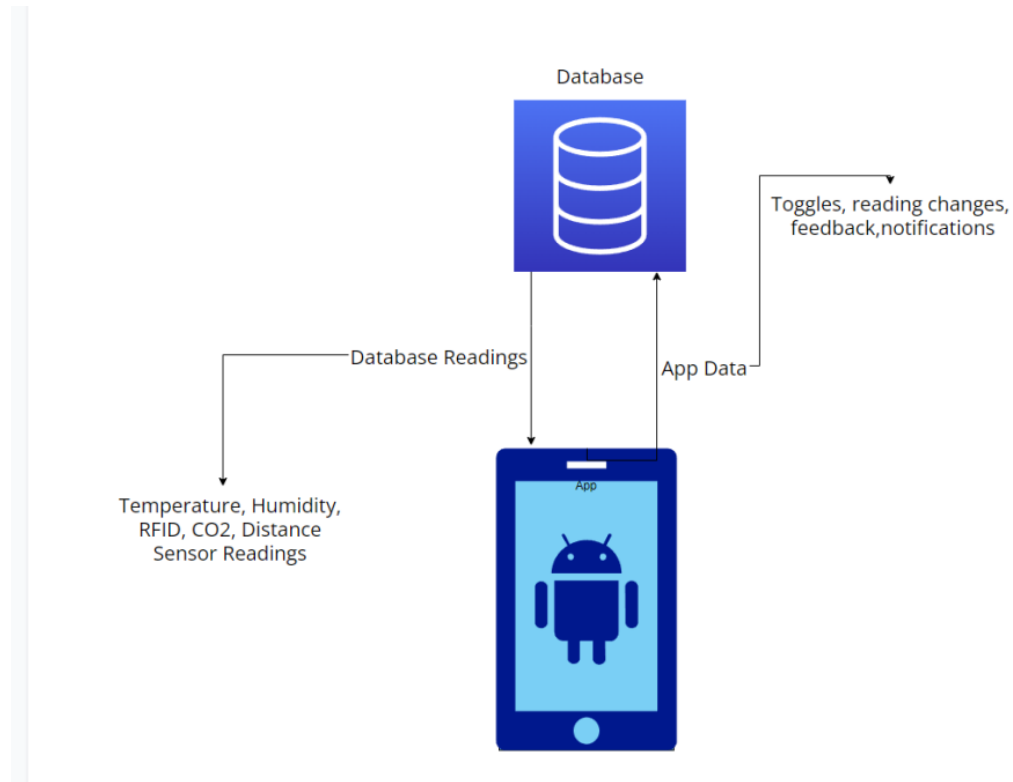- We are all merging to the master branch

Sprint goal

To polish the UI of the Fragments, connect databases to fragments in real time. Document code to improve comments. Read and write data to the database.

Sprint Retrospective

Project Performance

The project was low cost with the android upload fee being the only required fee for the project.

Most if not all of our goals set out were accomplished and the app is very close to the vision we had in mind in the early deliverables.

Scheduling was somewhat high maintenance as our group conducted meetings at least once a week and was in constant discussion via a group chat. We would frequently upload images of our progress, communicate with each other about what we were doing and also work at similar intervals

Time Management

Team members would notify each other of when schedules aligned to work on the project together

Time was managed fairly well as the bulk of deliverables would be finished before the due date and only some changes were needed at the last minute

group was never overworked, for example we avoided having long overnight work sessions and work sessions would usually never be long hours.

Quality and Compromises

Discussions were had early on in development to purposefully avoid any "feature creep" or implementing the use of certain features that may be out of skill level or would be too time consuming.

dynamic gauge for the temperature control system that would change depending on sensor readings had to be cut

time selector for light fragment had to be cut as

Lessons Learned

improved communicating skills and negotiating with teammates on features

communication skills were improved and great insight was gained into how projects are developed in an industry setting

Time management skills were improved in the context of a group

overall knowledge in android studio and use of fragments was improved

C4 Model

Database

Toggles, reading changes, feedback,notifications

Database Readings

App Data

Temperature, Humidity, RFID, CO2, Distance Sensor Readings

App

Work on feedback

- Added github invitation picture
- Took out contract
- Extracted hard coded strings

Google Play

Create internal testing release

⚠ We found some problems with your release

✓ Prepare —

② Review and release

Errors, warnings and messages

⚠ **1 Error**

Show less ∧

⚠ Error

You cannot publish applications until you complete ID verification. More details have been sent to your email.

⚠ **2 Warnings**

Show more ∨

New app bundles

File type	Version	API levels	Target SDK	Screen layouts	ABIs	Required features	
App bundle	1 (1.0)	23+	30	4	All	2	→

Was waiting for ID verification from google, this is the release.

Addressing Technical Debt

- Defining what was technical debt
- Prioritizing what needs to be worked on
- Using agile development, create a plan for how to approach debt
- Having meetings to discuss debt
- Code refactoring

2 Areas of refactoring

- FAB implemented to fragments
- Reading sensor data from firebase to the app in realtime

Suggestions for prof

- Give us options for features as it can be confusing trying to force a change to a app
- Learned alot from team experience
- Liked the merge with hardware course