GPS Tracker and SIM Card module update

Waiting until tomorrow to make decision

Want to talk to Stallard concerning our project

Hardware: Original plan was to track by phone. Now, requirements have shifted so that we build a prototype of a GPS tracker. Is this a good idea? How would we scale this project in the future?

Software: Should the app be focused only on schools?

Learning Service: If we make an improved prototype but are unable to implement fully for school, do we still get service-learning credit?

GPS tracker antenna

GPS tracker’s plug it into the radio antenna port

Does it have to raspberry pi?

SP 32

ESP 32

SEEQ

We don’t that much computational power

Serial bus

Google sheets

Simulator

GPS never work in JBC.

GPS simulator.

Arduino.

GPS logger

JB 106

Update on power bank

What to discuss in tomorrow’s meeting?

Jeff Hersh

Introduction

Mission Statement

App plan

Hardware plan

Problems that arise with making GPS tracker

Must pay money for: Server and cellular data

Tracking by phone solves this but is still contingent on bus driver: phone and cellular data

The big problem we face is transferring the data from the GPS tracker and into the hands of the user.

Budget may also be an issue

Discuss software side, break down into modules.

Dedicate members for back-end and front-end development.

Dedicate members to hardware.

Work Package

If you handed it to someone else: what do they need to know?

What you need to get the job done.

What do you need to know before you do the job?

Trade Spaces

Enterprise: School we will work with

If they are asking for something impossible: “we think we are competing with Facebook”

Integration Trade Space

Control how it happens

Just finished talking with Stallard, he suggested the following:

If you don’t have the parts by now, you are already too late.

Simulate the GPS data for presentation (GPS reception is poor)

GPS logger GPS simulator

Do we really need to have a raspberry pi? (Power consumption)

ESP32 SEEQ Raspberry pi zero

NMEA GPS Format

Use .csv files for storing longitude and latitude