Develop a mobile attendance system

This product is an app that students download onto their phone. It tracks students’ whereabouts during class time to see if they are actually attending class.

**Functions**

* Student portal:
  + Enter in student information, link to galaxy account
  + Retrieve class schedule from galaxy
  + GPS track student during each class block
  + Check every 5 minutes that student is in the classroom for duration of class
  + After each class, attendance is sent back to galaxy
  + Notify students if they are missing classroom
  + Change notification settings
  + If wifi is down, save information locally to upload later
* Teacher portal
  + Enter in teacher information, link to galaxy account
  + Retrieve class schedule from galaxy
  + Enter special conditions such as classroom/time change
  + Notify students if teacher is running late
  + Create report after each class of missing/present students
  + Accumulate data over course of semester about student attendance
  + If wifi is down, save information locally to update later

**Potential Problems Meeting the Requirements**

* Students/teachers don’t have a smartphone
* Students are uncomfortable with GPS tracking
* Students/teachers don’t fill out information in the app
* Student/teacher forgets phone

**Subsections**

1. Linkage/sync to galaxy (Reg)
2. GPS tracking (Anja)
3. Notifications (Ethan)
4. Reports (Timothy)