Indoor vs Outdoor Classification tasks

Idea: use GPS information to determine participant’s location

Requirement: have more features, and data could be accessed by users;

NMEA would be a good source if we could access through mobile apps

Device type: iOS

Attempted software:

* **Eos Tools Pro** by *Eos Positioning Systems*
  + Never successfully load the page
* **GNSS Analyzer** by *NEC Corporation*
  + Didn’t have a paired GPS receiver ( could get one free from Japan though)
* **GNSS Status** by *Trimble Inc*.
  + Always displaying that “the connected source is not configurable” for GNSS an NMEA
* **GpsGate Tracker** by *GpsGate AB*
  + Need a windows/ PC local server to process data
  + Haven’t tried officially and have no idea which data is available
* **Tracker for ArcGIS** by *ESRI*
  + Need to pay for an account
  + Didn’t really open and try the service
* **ArcGIS Indoors** by ESRI
  + Same as the above
* **GPS Tools** by *VirtualMaze*
  + Cannot generate data file
* **Bad Elf GPS** by *Bad Elf, LLC.*
  + Didn’t have a paired GPS receiver
* **GPS Plan** by *Hiroaki Yamada*
  + Cannot generate data file
* **GPS Status** by *Fawkes Wei*
  + Cannot generate data file
* **MyRadar NOAA Weather Radar** by *Aviation Data Systems*
  + The data offered wasn’t relevant
* **GPS 2 IP** by *Capsicum Dreams*
  + Cannot generate data file
* **TcpGPS** by *Aplitop*
  + Complicated configuration
  + Cannot generate data file
  + Inconsistent recording
* **Harry’s GPS/OBD Buddy** by *Harald Schlangmann*
  + Cannot generate data file
  + Some features needs to use add-ons
* **NMEA Gps** by *Alessandro Trebbi*
  + Erroneous display and never show useful data

Current used software:

* **GPS Tracker** by *Navigation*
  + Lat/lon/alt/horizontal acc/vertical acc/speed / course
  + Use horizontal acc, vertical acc, and speed to help classify the status of the user
  + Cons: unstable sampling rate, unstable acc, wrong time zone ( adjusted manually afterwards)