SIT107 - Software Engineering 1: Connecting The Cyber And Physical Worlds

Task 7.1P Collect GPS data using mobile apps

Mobile phones have significant sensing capabilities such as GPS, acceleration and lux . In this task you will use existing free mobile apps to record some GPS data.

Hardware Required

A smartphone with GPS.

Software Required

A web browser
One of the following apps installed in your phone:

- Android: Geo Tracker https://play.google.com/store/apps/details?id=com.ilyabogdanovich.geotracker&hl=en
- iOs: myTracks https://itunes.apple.com/au/app/mytracks-the-gps-logger/id358697908?mt=8
- Microsoft: GPS Tracker free https://www.microsoft.com/en-au/store/p/gps-tracker-free/9nblgggz2w34

You may install and try out any other app well as as long as they can track GPS & export tracks to GPX format.

Pre-requisites: You must do the following before this task

1. **Attend Class (Lecture)**
2. **Read this sheet from top to bottom**

Task Submission Details

There are 3 questions in this task. Answer all of them and submit to OnTrack.

Q1: Track a journey using one of the installed mobile apps. It is best if your tracked journey spans at least 5 kilometers. Export your track to GPX format and save the file to your computer. Upload your .GPX file to Github and provide the link here.

(You can email the .gpx file from your phone and download it to your computer)
(15 marks)

Q2: Open a browser on your computer and go to http://utrack.crempa.net/ . Upload your .GPX file to the site and click 'Generate Report'. Take a screenshot and include here.

(15 marks)

Q3: What information can you see from the generated report?

Note: depending on the app you used to record the GPS data, timestamps could be either in local time (that is AEST if you are in Melbourne) or sometimes it could be in UTC.