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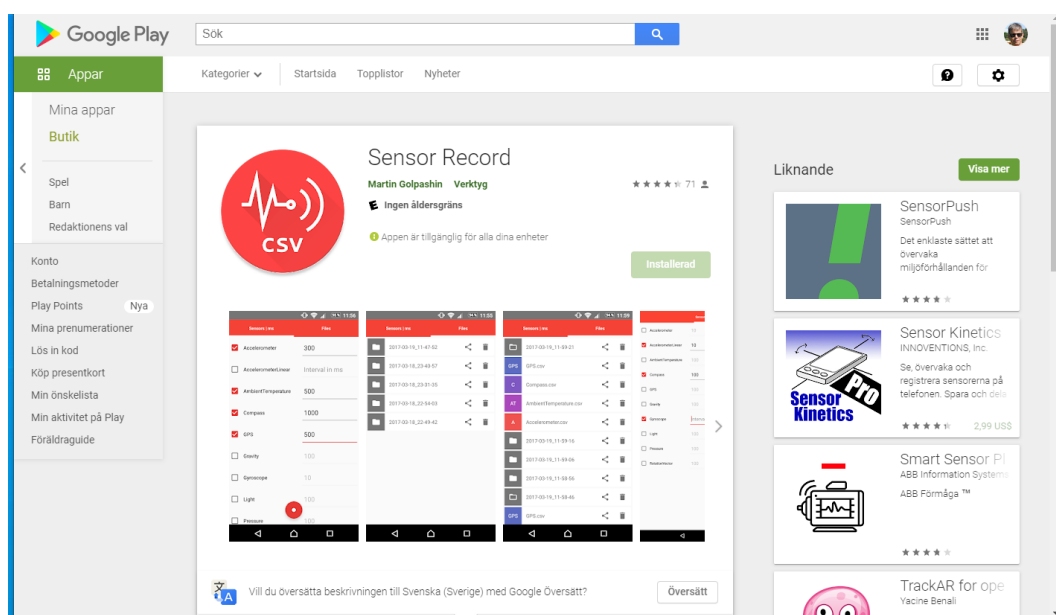
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Data Aqcuisition App

This document will describe how to use the app "Sensor Record" found @ Google Play. There exists similar app for IPhone but if you want to use that instead you have to figure out how to use it by yourself. The functionality described bellowed is needed, i.e.
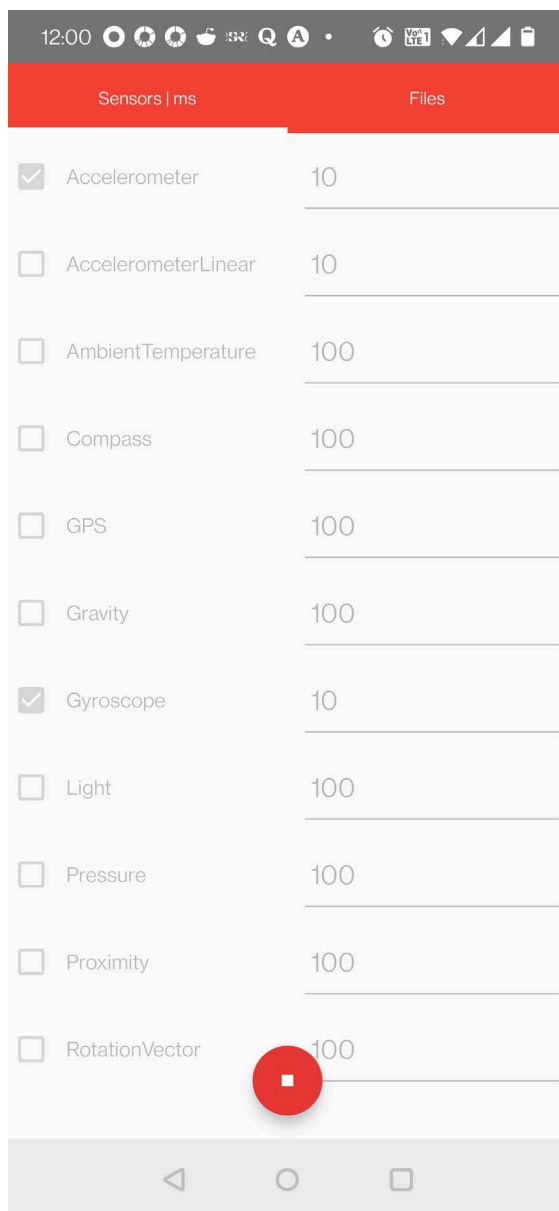
- Record sensor data.

- Store the sensor data in csv-file format and be able to upload the files so they are accessible to you Jupyter Notebook.
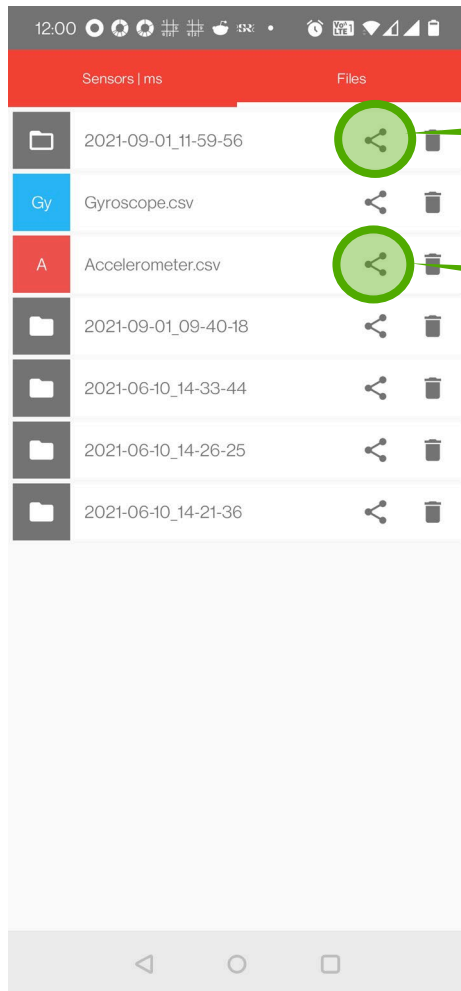
Recording sensor data

Below you can see the start screen where you find the available sensors. You can choose the sensors you what to record and which sampling time you what to record the data. Below you can see that the accelerometer and gyroscope is chosen. The sampling time is set to 10 ms, i.e. 100 samples will be recorded each second.

Note that the screen is greyed out. That is because the record button (red button) is already pressed, and sensor data is being recorded.

Upload the csv-files

In the tab (Files) you will find all csv-files with the recorded data. As you can see the data from each sensor is stored in a separate file. You can choose from uploading a zip-file with all sensor files from one recording or upload the files separable. You have several options how to upload the files depending of your installed apps on you android phone. Dropbox and OneDrive has been tested to work.

Zip-file with all recorded data will be uploaded

Just this file will be uploaded