Submission Date	2019-09-10
Project Name	IoT for Automotive UI
Student Names	Kevin Lieng, Seung Min Song, Quyen Lu
Project repository	https://github.com/qu0cquyen/Automotive_UI
SensorsEffectors choices	Temperature Sensor (DS18B20)
The database will store	Temperature value of Engine, Speed, GPS location, Blood Pressure, Oxygen and Heart Rate
The mobile device functionality will include	Indicating patient's health information. Showing current ambulance's location. Emergency call. Engine Temperature value.
I will be collaborating with the following company/department	Professor Dennis Kappen.
My group in the winter semester will include	Kevin Lieng, Seung Min Song
50 word problem statement	Currently, the traditional way of transferring a patient's data between paramedics and doctors is considered too slow. Doctors usually have to wait for paramedics to arrive at the hospital in order to get the patient's status such as heart rate, blood pressure, oxygen and so on.
100 words of background	Aside from showing essential information such as speed, temperature and vehicle's location of a car dashboard, displaying patient's medical information can help the paramedics and doctors better predict and prepare before the patient arrives to the hospital or during the transfer process. By implementing those sensors above and having them show on a dashboard as well as conveying vital patient health information through application can assist both paramedics' and doctors' initiatives.
Current product APA citation	Drews, E. (2017, November 16). Car Dashboard UI & UX Concepts. Retrieved from https://medium.com/inspiration-supply/car-dashboard-ui-ux-concepts-d135959d963f (n.d.). 2019 A-Class Sedan. Retrieved from https://www.mercedes-benz.ca/en/vehicles/class/a-class/sedan
Existing research IEEE paper APA citation	Applin, S. A., Riener, A., & Fischer, M. D. (2015, October 28). Extending Driver-Vehicle Interface Research Into the Mobile Device Commons : Transitioning to (nondriving) passengers and their vehicles. Retrieved from https://ieeexplore.ieee.org/document/7310907
Brief description of planned purchases	Raspberry Pi 3, Temeperature Sensor (DS18B20),
Solution description	Paramedics will be more flexible in transferring the patients by monitoring patent's health information. Once paramedics get the health information on their dashboard, this information then will be uploaded and updated on the phone application. Doctors can have an overall patient's status while using the application. This way the docotors can get everything prepared before the patient arrived at the hospital.