| | |
|---|---|
| Submission Date | 2019-09-10 |
| Project Name | Automotive UI |
| Student Names | Kevin Lieng, Quyen Lu, Seung Min Song |
| Project repository | https://github.com/SeungMin-Song/Dashboard-Sensors |
| SensorsEffectors | Speedometer(Hall effect sensor)(43237-2) |
| The database will store | RPM, speed, distance, elapse, multiplier values, location and basic medical information. |
| The mobile device functionality will | Get RPM, speed, distance, elapse, multiplier values, location, basic medical information. |
| I will be collaborating with the following company/department | Prof. Dennis Kappen |
| My group in the winter semester will | Kevin Lieng, Quyen Lu |
| 50 word problem statement | Inefficient communication usually happens between paramedics and doctors. This is because the information has to go through a middle process (dispatcher) first in order to get to the doctors or nurses. This leads to not having enough preparation before the patient arrives. |
| 100 words of background | In order to tackle the communcation problems. By using those sensors during this project, the information may be processed faster than the traditional way. For instance, using somes sensors to detect patient's status gives paramedics more initiative regarding to the current situation. Moreover, implementing GPS sensor for the vehicle and sending the current location through the mobile application assists doctors to get prepared for the circumstances. |
| Current product APA citation | Maserati. (n.d.). Ghibli. Retrieved from https://www.maserati.ca/ca/en/models/ghibli |
| Existing research IEEE paper APA citation | Kun, A. L., Boyle, L. N., Reimer, B., & Riener, A. (2013, April 18). AutomotiveUI: Interacting with Technology in Vehicles. Retrieved from https://ieeexplore.ieee.org/document/6504859 |
| Brief description of planned purchases | Will purchases hall effect sensor modul(It can be change to another model sensor) and RaspberryPi. |
| Solution description | With the implementation of all the sensors and functionality of the mobile application. It would create the ease of information to be transferred each other other in the medical field without the need of a middle process like the dispatcher. The paramedics would be able to communicate with the doctors more directly and allow for a more precise and accurate preparation for the patient arriving. |