206CDE Project Idea Proposal Form

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Project Title: - *"Place4me"*

What is the problem the group try to address?

When you want to park your vehicle in a car park most of the time you want to drive through the whole car while looking for a free slot.

However, there are some existing hardware based car park apps, they used ultrasonic sensors to feed their systems. When the car park getting bigger think about the no of sensor that they want to purchase and think about installation and maintenance cost.

The proposed solution.

We propose "*Place4me*" is IoT based, an Android Mobile Application that will help to drive you to the free slot in couple of seconds, Web Application and an IoT based Image Processing System to identify the free slots of a park and navigate the user to the particular slot. In here we identify the free slots using an Image Processing System (OpenCV) and feed our cloud database and pass it to the Mobile Application. Then user can select a slot as his desire and then system will navigate the user to the slot.

Issues

Installation of the camera in outdoor is a main issue of this system. As well as we will be unable to use third party cameras for the system inputs, there are some concern with privacy. Most of the time people do not park their vehicle on the right slot.