

Smart Parking System

This system will be implemented at Wichita state university parking lots. With the number of students increasing each year, either more parking spaces will be needed or an efficient way to monitor and utilize the available spaces. On multiple occasions I have been in a situation where I can't find an open parking space, I had to drive sporadically through multiple lots to find an open space.

According to the fall 2019 [data](#), Wichita state had a total student head count of 16058, which was an increase of 1.7% over fall 2018. Using my personal experience averaging about 5 minutes a day driving searching for an open spot. The total number of times spent by 1000 Wichita state students looking for a parking spot in a day is approximately 83 hrs. This data shows a more efficient way is needed to facilitate the parking system.

An efficient way of solving this problem is a smart parking system. This system will monitor all the parking spots and relay that information to a student on the availability of a parking space closest to his/her current position and how to get there. This will aid and remove the downtime of driving looking for an opening.

Citations:

https://www.wichita.edu/about/wsunews-releases/2019/10-oct/enrollment_wsu_2019_2.php