

ABSTRACT

Parking area is a primary need for vehicle users. This can be seen from the availability of parking lots in various places. However, because if vehicle users are provided with parking space in one place and there is a lack of information regarding the availability of parking spaces, it makes for vehicles that want to park their vehicles something that can cause congestion and things that are caused because cars continue to circle around looking for an empty parking lot. Thus, it is necessary to have a parking information system available in a parking lot.

That's why access to information on vacant parking lots is made by utilizing internet of things (IoT) technology, monitoring vacant parking lots can be done quickly and can be accessed from anywhere. In this study, an information system for the location of empty parking slots in a multi-storey building was created by utilizing IoT technology that can display information data related to parking areas such as the amount of parking available, parking time information, parking fee information and vehicle parking location information. This study uses an infrared sensor placed on a parking plot to find out whether the parking lot is still empty or has been filled. The data output of the number of sensor readings will be sent to the IoT platform and the LCD will display parking information available on the parking lot.

Keywords: parking area, internet of things, parking system.