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## **ABSTRACT**

A major problem in day to day life is parking of vehicles especially the car parking at an appropriate place. And this issue indirectly leads to traffic congestion. This paper presents the basic concept of using server or cloud based smart parking services in smart cities as an important application of the Internet of Things (IoT) paradigm. This system will be accessible through a mobile android app “SMART-PARKO”.

The project contains an ESP8266 Node MCU as the main processing unit and it gets inputs from the IR sensors which guide the user to know the empty parking space. The sensor will sense the state of car parking slots. The data obtained from these sensors is fed to the microcontroller. The microcontroller is programmed in such a way that if any one of the sensor senses the vehicle then the corresponding output is sent to the server, through protocol which we can access the data on our mobile through an app “Smart-Parko” or through a html page on the computer and view the parking lot of any locality to get the empty parking slot.

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