**ABSTRACT**

In recent times the concept of smart cities have gained immense popularity. Thanks to the evolution of Internet of Things the idea of smart city now seems to be achievable. Problems such as, traffic congestion, limited car parking facilities and road safety are being addressed by IoT. The rapid increase in the number of vehicles, makes finding a vacant parking slot in malls, hospital and other places increasingly difficult. This time delay increases the fuel consumption as well as stress. Our system will gather data on the vacancy of the parking slot with the help of Ultrasonic sensors present in the slots. The sensor transmits the data to the SoC (ESP8266), in turn the data will be processed and sent to the cloud database. The status of parking slot will be displayed to the user through an app which collects the data from the cloud database.

**Keywords – Internet of Things, Cloud computing , Smart parking, Smart city , Cloud of Things.**