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(57) Abstract :

In the most of the modern cities it is difficult and expensive to create more parking spaces for vehicles since the numbers of vehicles that are running on the road are increasing day by day and the count of the free spaces in the cities are the same. This problem leads to congestion for parking seekers and drivers. To develop an IoT framework that targets Parking Management this is biggest challenges in modern cities. Pervasive presence of smart phone encourages users to prefer mobile application-based solutions. Growth of IoT has paved way for integration of mobile devices, wireless communication technologies and mobile Applications. This project is an IoT based Smart parking system for smart cities that integrates with webpage. It provides a comprehensive parking solution both for the user and owner of the parking space. The main feature of this project is to identify the nearest free parking space and to navigating to the parking slot. IR sensors are used to identify if a parking spot is free. Availability of a free slot with its location information is transmitted using GSM/GPRS module technology, microcontroller and wireless communication technology to the server and is retrieved through a message application.

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