Intelligent Parking and Toll System using IoT "Iparkat"

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Abstract
Rising traffic congestion is an unavoidable condition in growing metropolitan areas across the world. Since, the majority of people use personal vehicles to commute, finding a parking space is a tedious task. Currently, the parking and toll system is semi-automated everywhere. This paper introduces a solution to cope with the mobility problem by using "Smart cards" incorporated with IoT to completely eliminate human intervention and alleviate traffic congestion. To facilitate this, a user-friendly website is proposed that displays 3 webpages i.e., to book a parking slot, to recharge the "Smart cards" and to view the Toll transactions. The hardware portion of this prototype consists of a system with sensor networks that communicate with the website to update the database.

References

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Index Terms

Computer Science Information Systems

Keywords

Internet Of Things (iot) Smart Cards Web-site Modules