

Submission Summary

Conference NameRECENT ADVANCES IN SUSTAINABLE ENGINEERING AND FUTURE TECHNOLOGIES

Paper ID207

Paper TitleTrashtrekker: IOT Based Smart Waste Management System

Abstract

Many times, in our city we see that the garbage bins or dustbins placed at public places are overloaded. It creates unhygienic conditions for people as well as ugliness to that place leaving bad smell. It creates bad health condition for the people by spreading some deadly diseases, to avoid all such situations we are going to implement a project called IOT Based Smart Garbage and Waste Collection bins. These dustbins are interfaced with Node MCU based system using Ultrasonic Module, WIFI Module which is present in the Node MCU along with central system showing current status of garbage, on mobile web browser with html page or in android app by Wi-Fi. Hence the status will be updated on to the html page. Major part of our project depends upon the working of the Node MCU; essential for its implementation. The main aim of this project is to reduce human resources and efforts along with the enhancement of a smart city vision. Each bin is given a particular ID it will in display in the screen of the respected admin and they can take immediate action. We are designing a smart bins means it contains some sensors, Ultrasonic Module. Thus this scheme helps to maintain the city sparkling by informing about the trash levels of the bins via a web page.

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