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Automatic Sensing Dustbin

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Abstract: *The smart cities must be provided with basic infrastructure and technological advancements to provide better comfort for living and the better ambience. Much cleaner and hygienic environment should also be assured as an important aspect of smarter life. As the waste is spread all over the surroundings, all the waste is dumped on the lands and this becomes very big problem and becomes source for many disease-causing bacteria as well as viruses which is why waste management is very important. To overcome all the problems of the environment, we have designed project named as "AUTOMATIC SENSING DUSTBIN" with the help of WIFI which performs the relevant activities involved in waste management. In this system, the dustbin is provided with sensor lid which recognizes your presence nearby and opens the bin for you and close the lid automatically. It also segregates the waste dumped in by sensing the wetness and dryness of the waste and further dumps it into respective bins i.e., wet waste bin and dry waste bin. In this system, dustbin is provided with embedded device which gives the status of the dustbin if it is full or empty and sends the updates to the user via SMS. It is a user-friendly bin and also promotes cleanliness and hygiene in the environment.*

Keywords: Waste Management, GSM Module, Tracking Garbage Bins, Real Time Monitoring.

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