

ABSTRACT

A healthy environment is a vital part of living in a healthy and happy community. The major goal of this project is to create an intelligent dustbin that will keep our environment clean and environmentally friendly. For a smart lifestyle, Cleaning is necessary, and cleanliness comes with an Intelligent dustbin. The idea of an Intelligent dustbin is designed for use in buildings, colleges, and hospitals. Intelligent Dustbin therefore thought is an improvement over the normal Dustbin by raising it to become intelligent through the use of sensors and logic. It's a new concept that uses ultrasonic sensors to detect garbage levels and then sends a message to the garbage collector via the GSM module, updating the bin's status. With the help of technology, we have implemented IoT-based intelligent bin management solutions and initiatives that reduce the amount of time and energy required, to send an SMS immediately when the dustbin is full. Due to a number of factors such as the socio-economic environment, developing countries are unable to implement existing solutions. So in this project, we focused our thinking on developing an IoT-based intelligent garbage monitoring system for developing countries like Bangladesh.