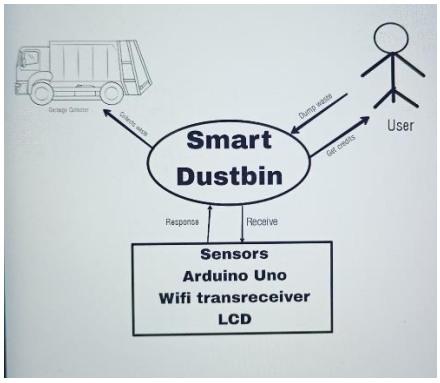
TITLE : SMART DUSTBINS FOR WASTE SEGREGATION

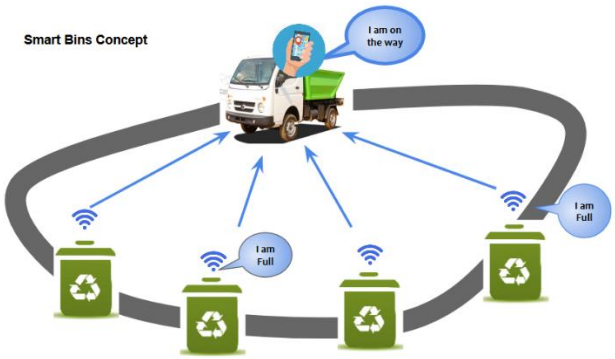
Problem Description :

As we see around many of the people throwing the waste beside of the roads and canals and drainage canals and many other places this will lead to rise many problems The amount of waste has been increasing due to the increase in human population. In cities, the overflowed bin creates an unhygienic environment which leads to health problems. The proposed system is for the separation of waste into two categories namely wet and dry waste. Each of the wastes are detected by the respective sensors. This system will helpful for both the human beings as well as environment.

Proposed System :

The project is purely based on the IOT(Internet of things). The foremost goal of this project is to segregate the wastes, and to perceive the level of the dustbins.With such information, garbage collectors collect the waste from the respective bins where the level of the waste in the bins are reached without going to all the places where the bins are placed. Firstly the user dump the waste into the dustbin, the sensor identifies the type of the waste. If he drops the waste by segregating correctly into the respective bins then he is able to get the credits otherwise not. Moisture sensors are used to detect the waste in the bins,Ultrasonic sensor observes the levels of bin and load sensors are used to calculate the load ,based on the amount of load the credits are awarded to the user.





Components :

Moisture sensor, load sensor, Lcd module, ultrasonic sensor, wifi transreceiver, Arduino.