OCTOBER 2022 SPRINT 2

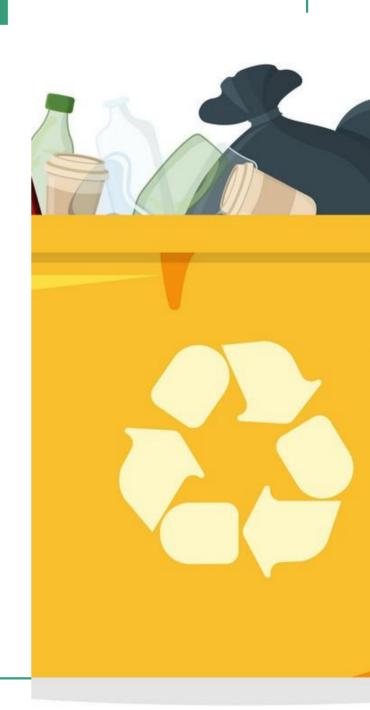
Reported By:

Mohammed Ijaz.T

Phinehas Kirubakaran.M

Rajaseelan.M

Praveen.M



LITRATURE SURVEY

Litrature Survey Link	Authors	Year
https://www.researchgate.net/publication/354271614_ Waste_Management_Technology_for_Sustainable_Agricul ture_Waste_Management_Waste_Management_Technolo gy_for_Sustainable_Agriculture	Muzaffar Ahmad Bhat , A. Wani Adil , Yaqoob Lone	2021
https://ieeexplore.ieee.org/document/8515871	Mohammed Adam , Mohammed Elnour Okasha , Omer Mohammed Tawfeeq , <u>Bakri Nasreldeen</u>	2018
https://ieeexplore.ieee.org/abstract/document/80796_23	Supratim Auddy , Shubham Kumar , Amrendra Kumar Singh <u>,Debmal</u> ya_ <u>Ghosh</u>	2017
https://www.researchgate.net/publication/332954030 _An_Automated_Machine_Learning_Approach_for_Smart _Waste_Management_Systems	Denis Kleyko , Fredrik Blomstedt ,David Rutqvist	2019

LITRATURE SURVEY

Metropolitan city waste management system

Literature review:

In the recent spans of years, Urbanization has inflated terribly nice in size and there's a rise in waste production. Waste management has been a typical issue to be thought of. during this paper, sensible bin is constructed with ARM microcontroller that is interfaced With UART and IR sensors. IR sensors square measure placed at each ends of trash bin. They work under AND operation. When the dust bin is filled message will be sent to the respective mobile displaying "Garbage is filled". It ceaselessly alerts the specified authority till the rubbish within the garbage can is press. Once the garbage can is press, individuals will recycle the garbage can. Once these dustbins are enforced on an outsized scale, by substitution ancient bins, waste will be re-used expeditiously and avoids gratuitous lumping of wastes on road aspect. Foul smell from these rotten wastes that remained untreated for while, because of neglectfulness of authorities and public could cause sturdy issues. Breeding of insects and mosquitoes will produce nuisance around promoting unclean atmosphere, this might even cause dreadful diseases.

Pros:

Advancement of smart city system.

Effective management of the city waste helps people life style to improve

Making the garbage system an IoT application opens path to a lot of different opportunities

Hands on Device system for garbage system helps to have a more detailed update on the disposal system. Applications:

Can be implemented in highly trafficking system

Apartment based lifestyle has a huge requirement for this kind of system

Helps city people to have a update on garbage system

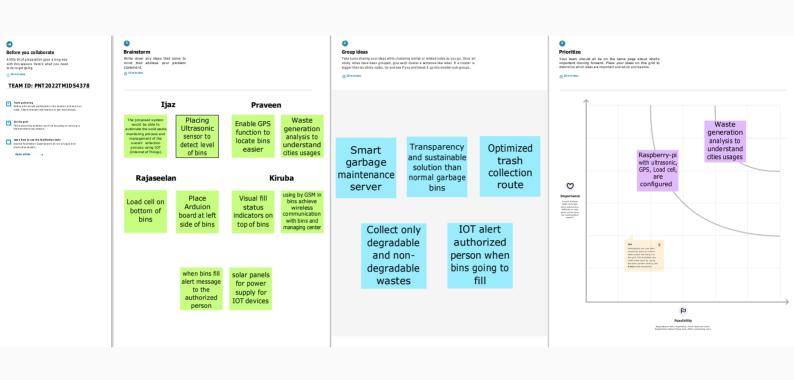
Hardware Setup:

The implementation of the smart garbage monitoring system is done by following the design approach as discussed earlier. The program is based on the C-compiler based IOT technique is loaded into the ARM microcontroller. The ARM 7 LPC 2148 micro-controller is used and the compiler lab code written can be ported on to the micro-controller using Code Composer Studio. The LCD module is connected onto the ARM 7 LPC 2148 kit, to deliver the latitudinal and longitudinal positions thus developed is also sent the respective mobile. ARM micro-controller is high speed ant is d based on RISC architecture. It has 64 bit micro-processor. It has reduced complexity, less power consumption and smaller size. The 16*2 LCD module can display 224 symbols is interfaced with LPC 2148 kit, it is helpful in providing user interface as well as for debugging purpose. LCD modules can display textual information as well as numerical information to user. The 16 by 2 LCD interface supports both 4 bit and 8bit. and facilitates to adjust. It has 16 characters per line by 2 lines. That is each line displays 16 characters in 2 lines. Also the GSM module is interfaced with the UART, C program to send a message from LPC 2148 to mobile through GSM.

Conclusion:

The project titled "Smart garbage monitoring system "is aimed at implementing a safe and clean environment. Our proposed reward based intelligent garbage based system when implemented on a large scale and in the long run can get high satisfying outputs. By implementing this system of garbage disposal and collection we can reduce the pollution cost by the stinking garbage that we come across along the road paving way for clean environment also not only the world is made clean but also people are rewarded for the help. This robotization of waste additionally diminishes the human exertion and therefore the expense of entire procedure. This framework can be executed at wherever easily and inside sensible measure of time. Our work is little however a productive advances for working of a fantasy city with a clean and an extremely sound condition. With support from the administration we trust that our proposed framework when actualized will give exceptional returns.

BRAIN STORM



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