# Smart waste management system using IOT

**PROBLEM STATEMENT :-**

**Waste is an important issue, which needs to be tackled smartly. We got inspired from "Swatch Bharat Abhiyan" which is a national campaign by the Government of India, to clean the streets, roads and infrastructure of the country.**

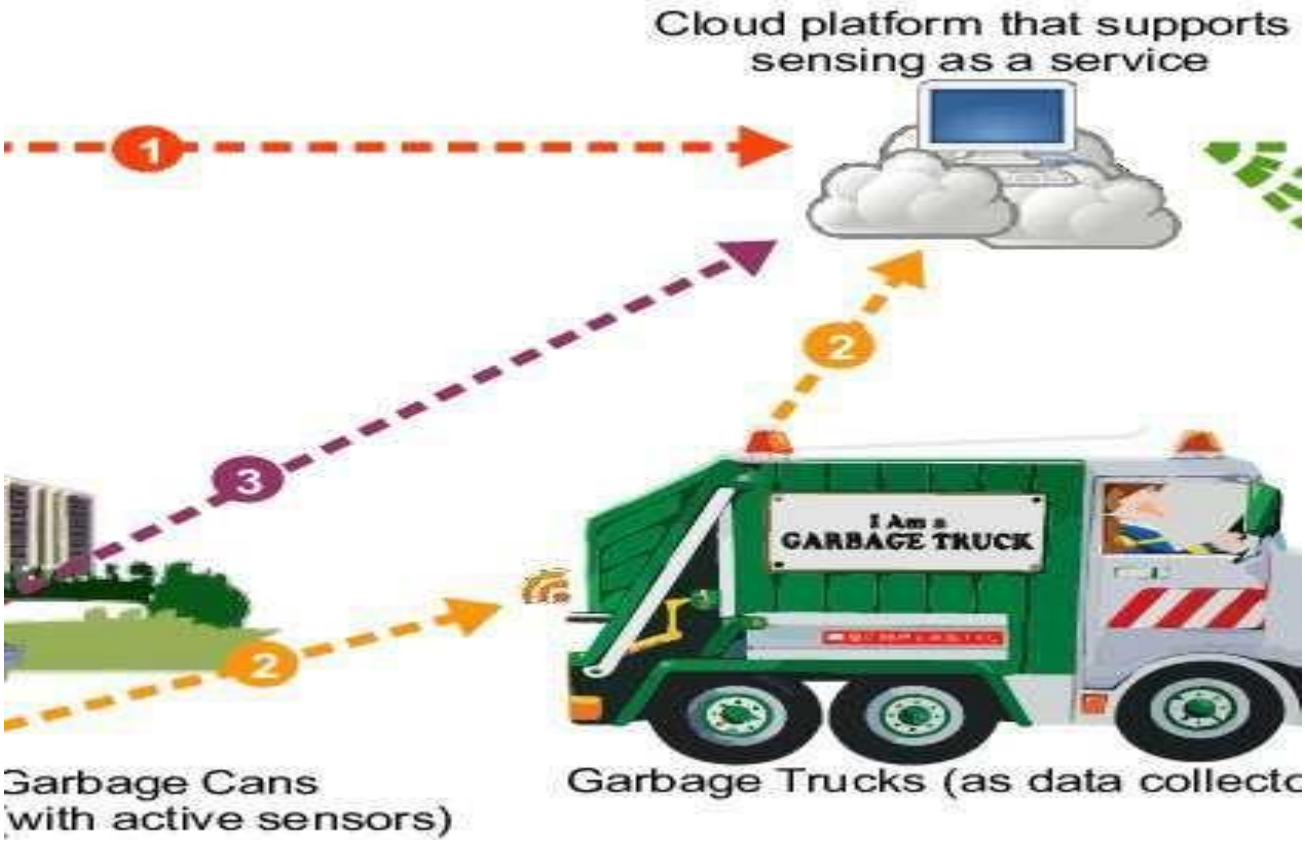
- **The major objective of this proposed system is to stop the dustbin overflowing around the road side and localities as smart**

**bins are used in real time. This can create the surrounding area a neat and clean while eliminating the overflow of the wastage outside the dustbin due to regular cleaning of the dustbin. Our objectives for this project are as follows:**

- **Sensor based smart waste dustbin will judge the level of waste in it and send the message directly to the municipal corporation.**
- **According to the filled level of the smart waste dustbin, the vehicles from the municipal corporation will choose the shortest path which will save their time.**
- **It emphasizes on “Digital India” as**

**well as “Swatch Bharat Abhiyan”.**

- **The system is simple. If there is any problem with any equipment in the future, that part is easily replaceable with new one without any difficulty and delay**



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- **In future, some additional features will add to this project to crush and recycling plastics and other materials automatically.**

- **We can develop the smart dustbin which will automatically separate trash into solid waste and liquid waste.**

- **For future, instead of person in the vehicle we can make use of a line**

**follower robot which does not require**

**a man power to move the vehicle.**

- **This path follower robot is able to**

**follow line marked on contrasting**

**background usually black line on a**

**white surface or white line on a black In future, some additional features will**

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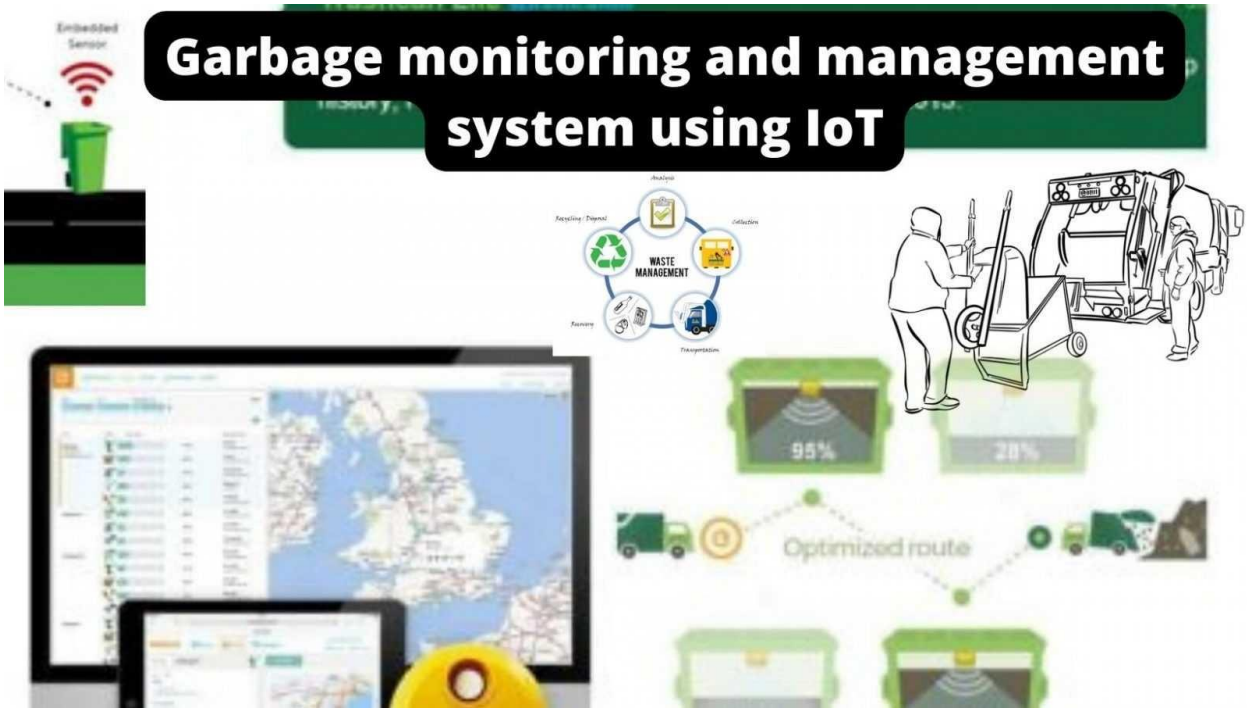


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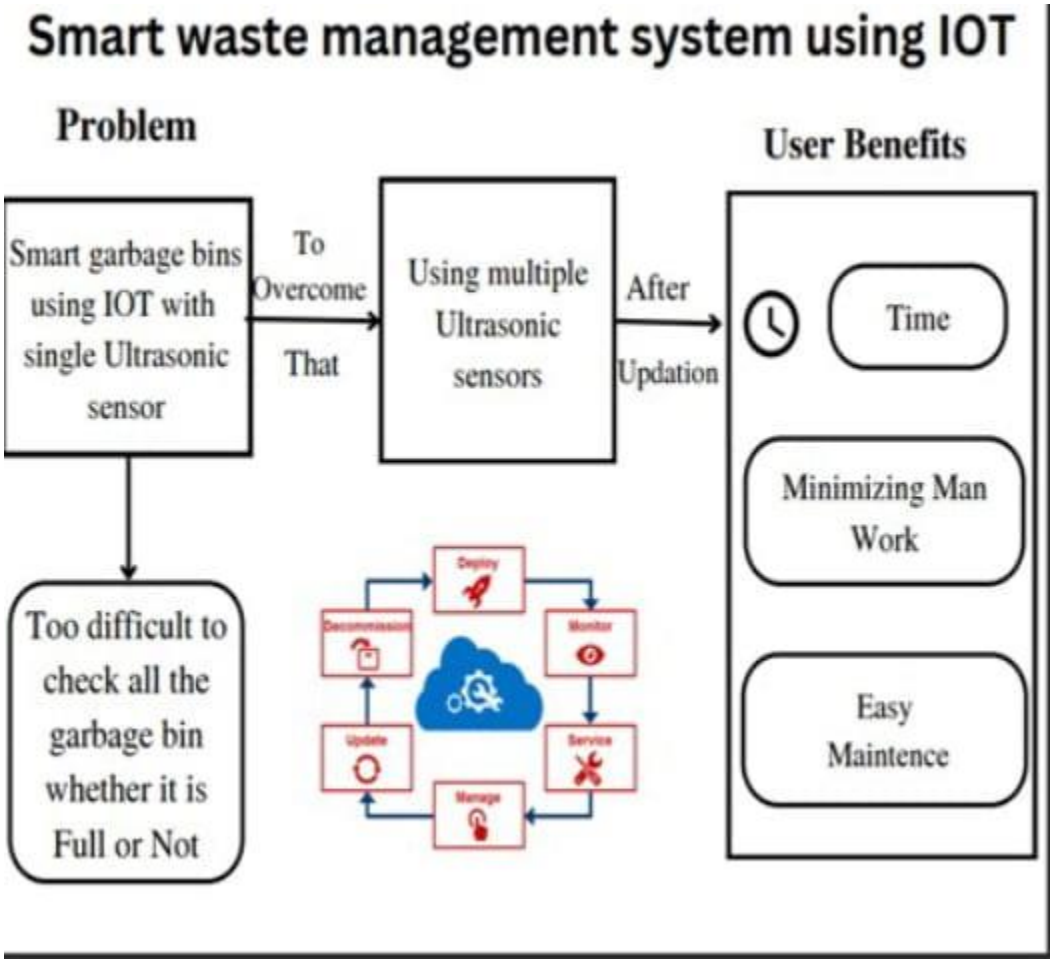
**background usually black line on a white surface or white line on a b white surface or white line on a black lack surface .**