

WASTE SEGREGATION USING IOT AND MANAGEMENT- WASIM

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Waste segregation at the household level is crucial to mitigate the challenges of managing waste at dumping grounds, which is often ineffective and burdensome. The rapid population growth has exacerbated pollution, leading to numerous health hazards. To address this issue, a smart garbage management system is essential. This paper proposes an IoT-based smart waste segregation and management device that detects waste in dustbins using sensor devices. Upon detection, the waste is segregated with the help of sensors, and the information is immediately transferred to a dashboard via IoT. The dashboard includes a website accessible to the public, aiding citizens in understanding the environmental impact of waste. Additionally, the website facilitates the bidding of recyclable wastes, supporting government and NGO initiatives to raise awareness and implement effective waste management strategies.