IOT based Waste Management System

Deeraj C[1], Dr. T Subburaj[2], Neelesh B.U[3]
Department of Master of Computer Applications[1,2,3]
Raja Rajeswari College of Engineering, Bengaluru, Karnataka, India
deerajsimha@gmail.com and subbhurajo@gmail.com and neeleshbuan005@gmail.com

Abstract*: Waste segregation is a crucial step in Waste Management System to promote recycling, reduce environmental pollution, and conserve resources. In recent years, the integration in Internet of Things. Technology has emerged as a promising approach to enhance waste segregation processes. This paper presents a comprehensive overview of waste segregation using (IoT). Smart bins with many sensors, including moisture, infrared, and ultrasonic ones, connectivity elements like power supply and battery, make up the Internet of Things-based trash segregation system. Moreover, the system utilizes actuators to automate processes like lid opening/closing and waste compaction, improving efficiency and hygiene.*

Keywords: Waste Segregation, IoT, Smart Dustbin