

## **ABSTRACT**

Garbage is the main problem around the world nowadays. Many people still throw garbage wherever it shouldn't be. It can also be caused by the janitors who don't know that the trash can is full, so there is a build-up waste because they're late to pick it up. Therefore the environment can be harmed and disturb people to run errand.

Smart Trash Bin Based on Internet of Things (IoT) is an innovation that can inform the janitors and also the house owners if the trash can is full. Smart Trash Bin Based on Internet of Things (IoT) can provide some solutions to these problems above, which is help them to be able to take control of the trash can so they can immediately pick it up when it's already full and the problems won't happen again.

The results of study obtained from these innovations, it can facilitate the house owners and the janitors to see if the trash can is full without open it or from afar, sort those garbage whether it's organic or anorganic, and help the janitors' duty to create a healthier environment for surrounding.

**Keyword(s):** Internet of Things, Smart Trash Bin , Antares