

## ABSTRACT

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*The common problem found in the trash can on campus is that the trash that is already full is still forced to accommodate garbage, has not been able to detect the height of garbage in and the janitor must check the trash at regular intervals. From the problems that have been explained, it is necessary to use a smart trash can whose cover can open and close automatically, can detect the height of the trash, can send notification messages to the janitor and the user. To support the smart bin, NodeMcu is needed as a microcontroller, proximity sensor and servo motor to drive the trash can, ping sensors are needed to obtain garbage height data and the ESP Notify application is used by janitors to receive notification messages, and for users, LEDs become a place indicator garbage is already or not full.*

*Keywords: Automatic, NodeMcu, ESP Notify*