

# EcoBin

"Transforming the way  
we dispose"

B Y : G R O U P A 7

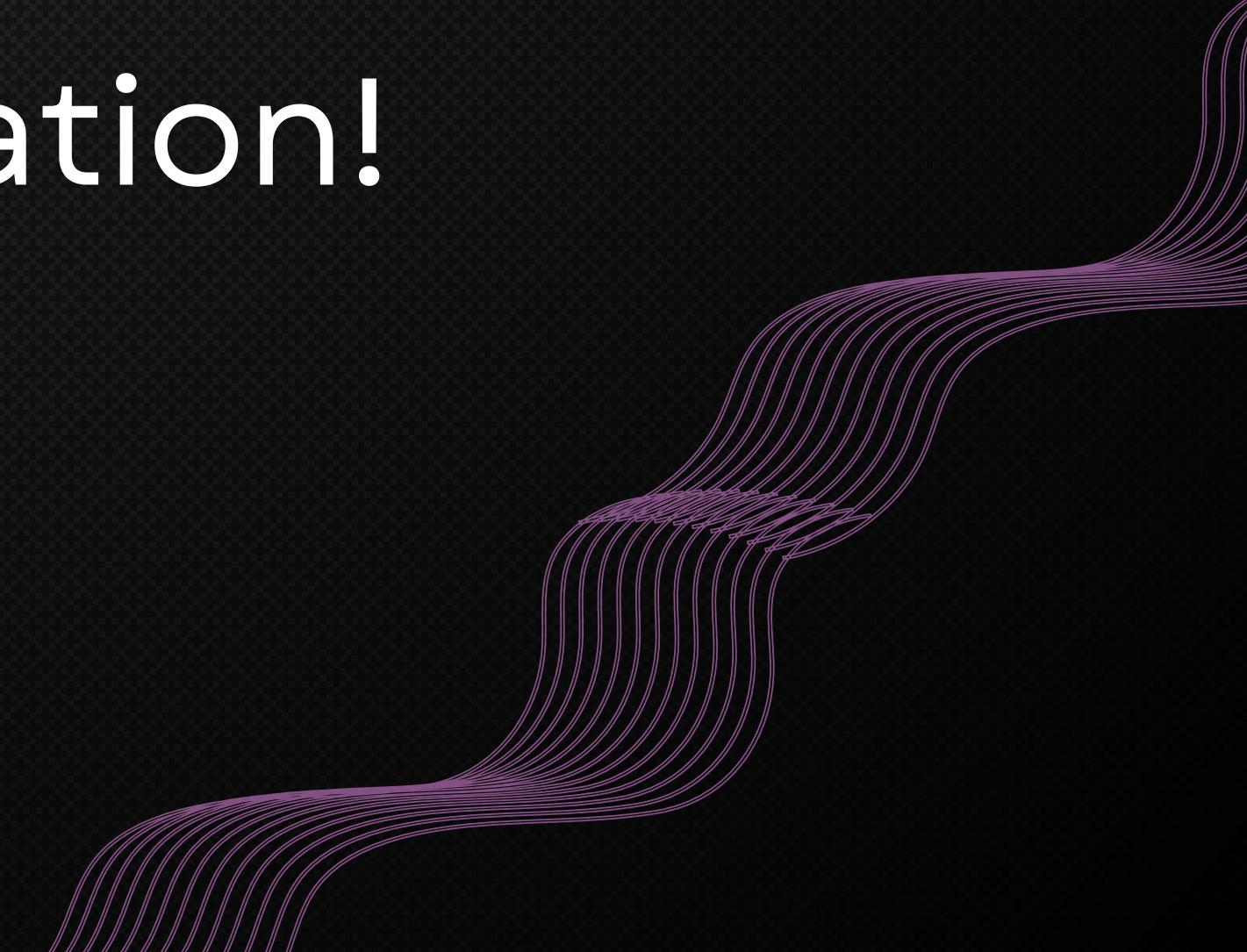
# PROBLEM

In this modern day world, the current day-to-day waste disposal systems heavily rely on manual operation, requiring individuals to physically open the trash bin lid, whether using their hands or their feet. This process not only creates inconvenience and gives a suboptimal user experience, leading to discomfort and dissatisfaction. The manual operation required to open the bin lid can be cumbersome and unhygienic. Moreover, individuals may hesitate to dispose of waste properly if they perceive the process as inconvenient or unpleasant. Therefore, there is a need for a more comfortable and user-friendly waste disposal system.

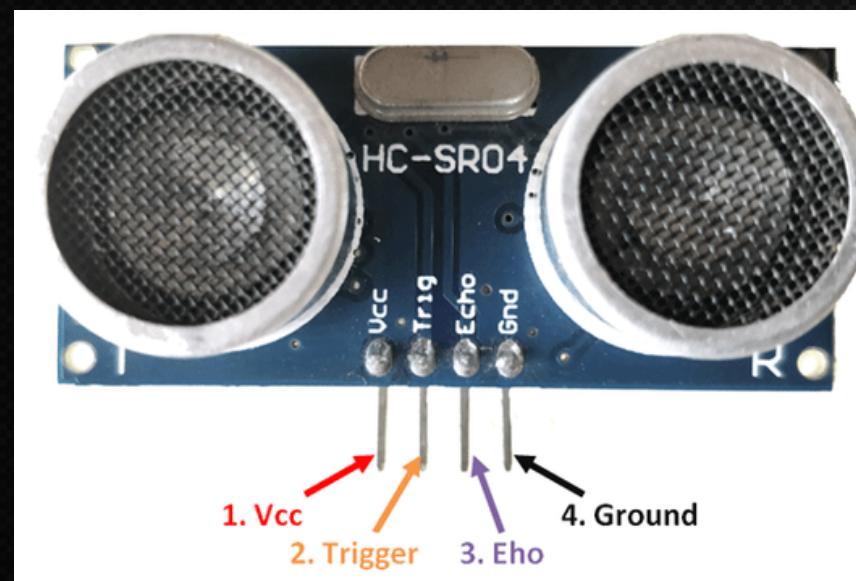


# **Solution**

Trash lid automation!



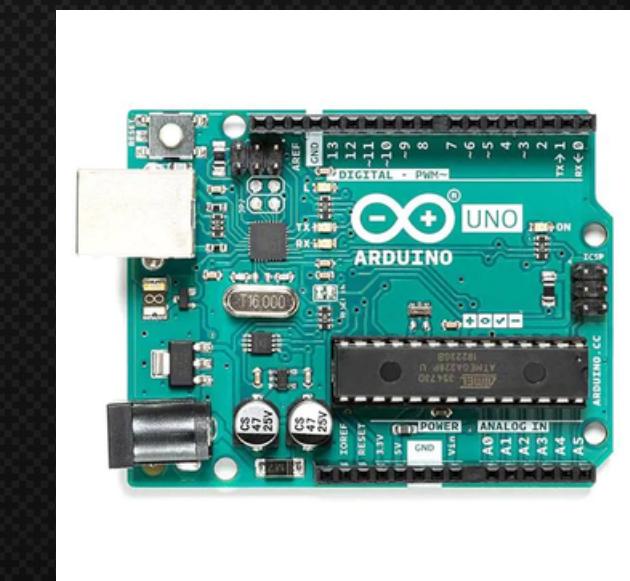
# What we use



HC-SR04



SG90



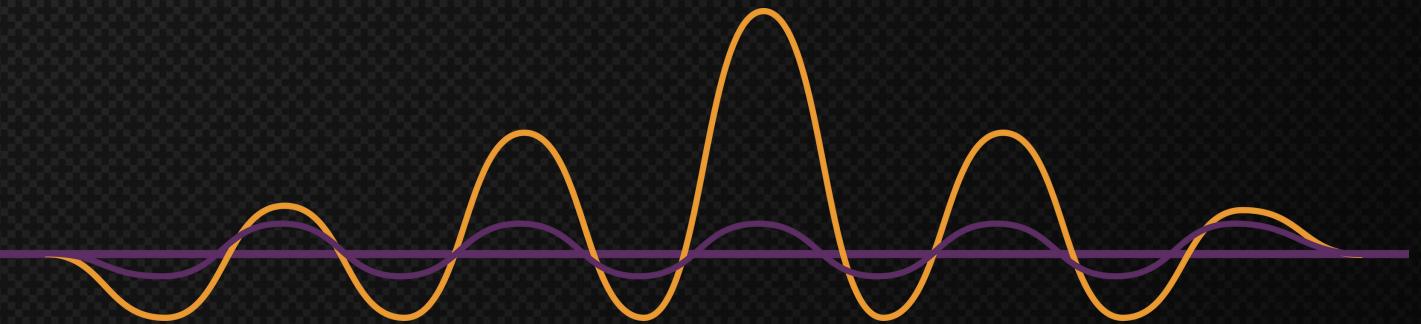
ARDUINO

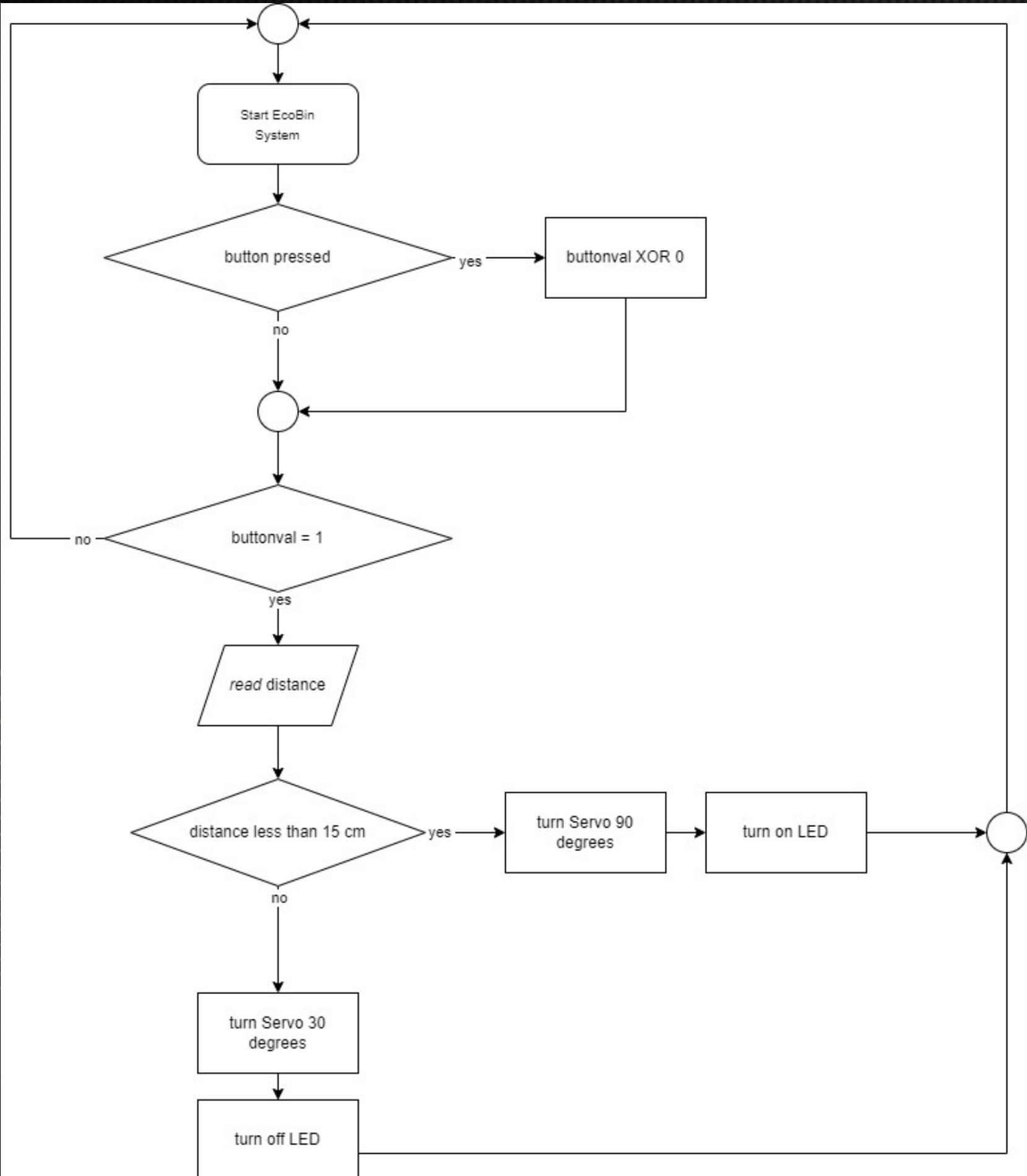


LED

# How it works

Our HC-SR04 will react to objects that have a distance less than 15 cm from the sensor. When that happens, it opens the lid with the help of SG90 Servo. It also have LED for visual indicator purposes.





# Flowchart