

## Project Proposal(Garbage Classification)

1. Link for dataset used:

<https://www.kaggle.com/asdasdasdas/garbage-classification>

2. Features supported:

- There are 6 different categories of garbage which include Metal, Cardboard, Glass, Paper, Plastic and Trash.
- As part of this project classification of an image of garbage item is done into one of 6 different categories of garbage.
- Following 3 simple sketches show the major feature of the future app:

I) Input



II) Display



☒ Disinfectant Bottle

☐ Glue

☐ Battery

☐ CD

III) Result



3. While looking for apps which already perform garbage classification, I could find some basic apps which include:

- I) Green Planet
- II) Garbage classification guide
- III) Garbage classification

4. Why this App?

- While exploring different areas, I could identify the gaps in recycling in our neighborhood and when I explored it further on internet, current cost of recycling products currently was seen to be quite huge.
- This made me decide that automating things for better garbage classification at user level at user level might help in reducing the cost of recycling products in market. This, in turn, would reduce the cost of recycled products in market further.
- Its scope in future:  
It can be used for creating automated bins which would place correct bin before user just by using the image of it. Other than taking image, voice recognition and text input can also be used as parallel ways of giving the input garbage.