

A Greener Future - Smart Recycle Bin

- Introduced by BRR Technology Team

Recycling waste is one way to lower our impact on the physical world which we live in. We must change our consumption habits as the amount of waste we create is on the increase. Ideally we will all consume and waste less. Until then we need to find ways to manage our waste in a more sustainable manner.

The aim of this project is to increase residents' awareness of their consumption habits and to become more conscious of the amount of waste they produce.

Key Features

Weighting System / Remote Monitoring / Mobile App / Earn Credits

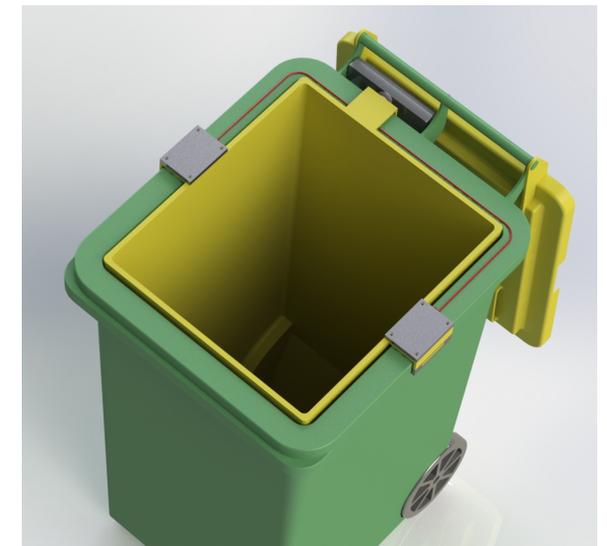
The Smart Recycle Bin features a weighting system that could measure the weight of the waste. The data will then be instantly updated to the App on resident's mobile phone. Through this App, users are able to know how much wastes they have produced and the rewards they can gain.



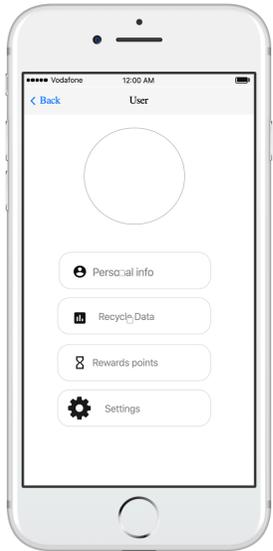
Reward System

Using IoT, the recycling bin will be able to record the amount of recycling collected and send the data to the local authority, such as a local council.

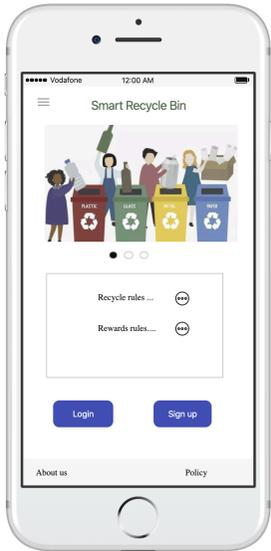
Based on the data, the local authority could provide residents with a reward-scheme to motivate them to separate recyclable materials from their waste, and ultimately, waste less.



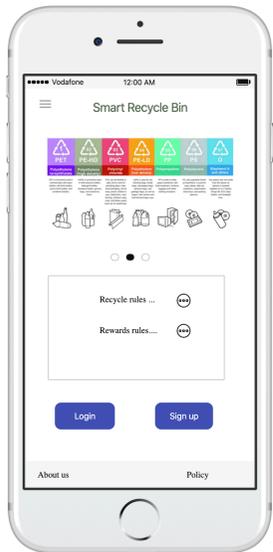
Mobile App User Interface



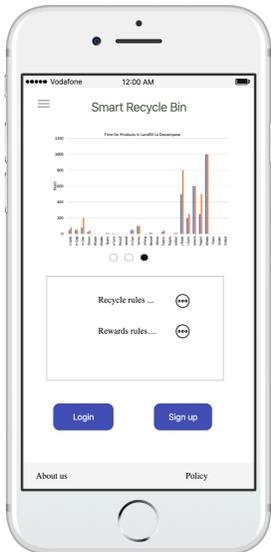
Easy Set-up Account



Simplicity - Easy to Navigate



Educational & Informative



Keep Track of Rewards

Tech Specs

Electrical Equipment Box

- Computer Chip
- Load Cell Amplifier
- Battery
- Wifi or Bluetooth Module

Impact Protection Material

- Absorbs more than 90% of energy upon repeated impact
- Shock absorption while providing rigid support

Strain Gauge Load Cell

- One on each side
- Provide accurate weight information
- Combined error: +/- 0.05%
- Can translate up to 50kg of pressure (force)

Original Recycle Bin

- Simple modification and cost saving
- Suitable for waste collection by all kinds of waste trucks

Click & Lock Handle

- Easy and time saving installation

