

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

15 minutes

Tip

You can select a sticky note and hit the pencil/pencil to edit (don't start drawing)

ELAKKIYA

Can set up unique QR codes for each dustbins to get the details.

As waste products releases toxic gases we can include gas sensors to measure the gas level.

ABIRAMI

can allocate separate vehicles to particular streets to collect waste easier and faster

The QR codes can be given to the vehicle drivers to see which one should be emptied first

JAYASINDHU

Can create a online platform to view the collected data

use of IoT and ultrasonic sensor

PREETHI

using wifi module for easy communication or transfer of data

can insert temperature sensor to monitor the humidity level

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Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

Using Internet of Things

using IoT technology enables intelligently designed routes for garbage trucks based on data from connected garbage containers thanks to the collector route software.

IoT powered smart management solutions focus on improving the total efficiency of waste collection and recycling.

The most common IoT use case in waste management is route optimization, which reduces fuel consumption while emptying the waste dumpsters throughout the city

Thingspeak

ThingSpeak provides instant visualizations of data posted by your devices to ThingSpeak

real-time data collection, data processing, visualizations, apps, and plugins

Requirements

Ultrasonic sensor, temperature sensor, gas sensor, wifi module, arduino

Thingspeak online platform

Step-3: Idea Prioritization

