

Smart Waste Management System For Metropolitan Cities Technology: IOT

TEAM LEADER: MADURA TV - 19CS074 TEAM MEMBERS: PAVITHRA BL - 19CS103 MOHAMMED SUFAID M - 19CS078

PAVATHARANI SANMUGAMANI - 19CS102 10 minutes to prepare 1 hour to collaborate

2-8 people recommended

A little bit of preparation goes a long way with this

This is a text box...

Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

Set the goal Think about the problem you'll be focusing on solving in the brainstorming session.

Learn how to use the facilitation tools Use the Facilitation Superpowers to run a happy and

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Before you collaborate

session. Here's what you need to do to get going.

lifestyle waste generation levels are increasing tremendously, hence waste management is a challenge for both developed and developing nations. The problem here is that the garbage collectors are not aware when the garbage bins are full. We have proposed a solution for this problem by using Internet of Things and cloud based smart waste management system.

> Smart waste managementin metropolitan cities

Key rules of brainstorming To run an smooth and productive session

Go for volume.

If possible, be visual.

Encourage wild ideas.

Problem Statement With increasing population, urbanization, and changing

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

→ 10 minutes

Brainstorm

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

MADURA TV

PAVITHRA BL

The bins

location is sent

to the

municipality to

sensor values are collected

Analyse the

data to

indicate the

municipality

Once the

threshold value

is reached the

GPS location is

to sent

All the collected data is stored in the cloud

The functions in

this can be

automated to

avoid errors which

are occured

manually

collect the filled bins. The shortest path can be found to reduce

The nearby trucks can be indicted with the help of GSM/GPRS to cost.

the fuel cost and garbage filled avoid any delay in the dustbin

indicate the level of

PAVATHARANI S

If the level of the garbage in the bins are monitored whether the threshold value is reached

MOHAMMED SUFAID M

Amount of the garbage collected is recorded

The level of

the bins can

be constantly

monitored

The optimal path to reach the bins is analyzed

reduce the fuel

Constantly

Using an application to alert the workers to collect the garbage

message is sent to the nearest truck driver

Intimation

An IR sensor always senses the objects when dumped

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 and break it up into smaller sub-groups.

The different sensor values are collected

The bins GPS location is sent to the

threshold is reached.

municipality if

An IR sensor always senses the objects when dumped

> Increased efficiency

Add customizable tags to sticky notes to make it easier to find,

browse, organize, and categorize important ideas as themes within your mural.

Store the data in the cloud and analyze

Intimation message is sentto the nearest truck driver

them

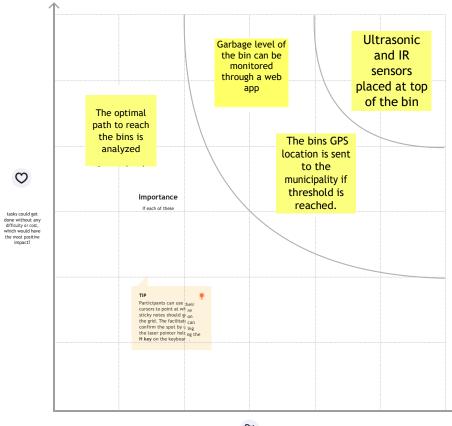
The optimal path to reach the bins is analyzed

over time

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⊕ 20 minutes





Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)



Share template feedback

inspiration?

















