

Project Design Phase-II

Data Flow Diagram

Date	14 November 2022
Team ID	PNT2022TMID36388
Project Name	Project–Smart Waste Management for Metropolitan Cities
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enter and How it will work and leaves the system, what changes the information, and where data is stored.And Stored Data is accessed through lot based system. A smart waste management uses analytics to translate the data.

- The test conducted is the situation where the garbage bin is empty or its garbage level is very low.
- Then, the bin is filled.
- The notification is sent by the system.
- The garbage needs to be collected immediately.
- Location prone to overflow.
- The number of bins needed to avoid overflowing waste.
- The number of collection services that could be saved.
- The amount of fuel that could be saved.
- The driving distance that could be saved.
- No missed pickups of trashcans.
- New smart dustbins can be install by just connecting the IoT device to the cloud.

Example:

Data Flow Diagram

