

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	13 October 2022
Team ID	B2-2M4E
Project Name	Smart waste management system for metropolitan cities.
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1

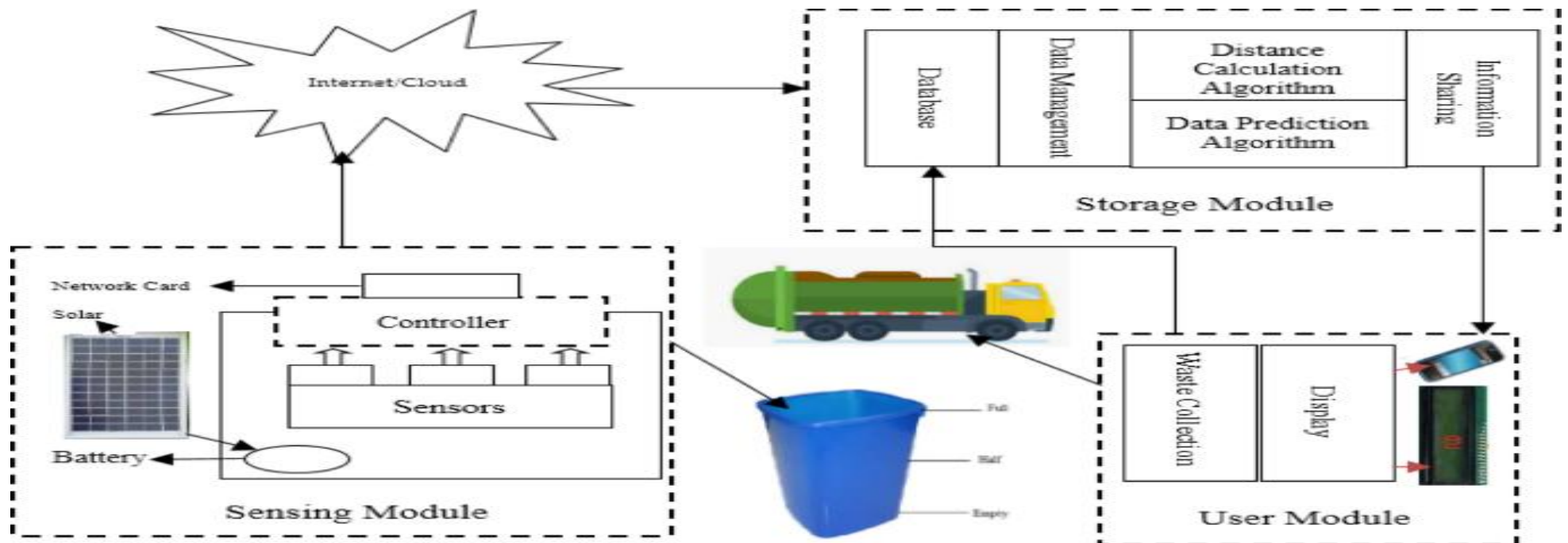


Table-1 :Hardware And Software Components.

S.No	Component	Description
1.	Ultrasonic sensor	To detect the obstacles.
2.	Node MCU	Provides internet access.
3.	Arduino	Dual purpose of supplying power and acting as a serial port to interface arduino and computer.
4.	Arduino IDE	Includes text editor for writing code,text field, a console a basic feature button toolbar and a set of menus.
5.	Database	Data Type, Configurations etc.
6.	Tinkercad	It is an online compilation of autodesk software resource. Offers circuit modelling facilites.
7.	Thing speak	Open-source for internet of things.
8.	IFTTT	Web based application.
9.	LoRa	Transmit garbage level data
10.	Solar pannel	Recharges the battery.