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

Date	15 October2022
Team ID	PNT2022TMID10856
Project Name	Project- About Smart Waste Management System For Metropolitan Cities
Maximum Marks	4 Marks

Technical Architecture:
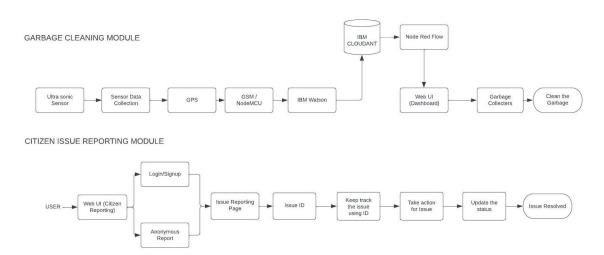

Smart Waste Management System For Metropolitan Cities

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI	React Js etc.
2.	Application Logic-1	Get the data from sensor	C/C++
3.	Application Logic-2	Send the data to the Cloud	IBM Watson IOT Platform
4.	Database	Data Type, Configurations etc.	NoSQL
5.	Cloud Database	Database Service on Cloud	IBM Cloudant.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	React	Java Script
2.	Security Implementations	Application security: Veracode Firewall: cisco	Network automation
3.	Scalable Architecture	It provides the room for expansion more database of smart bins added additionally can be updated.	Cloud storage
4.	Availability	As the system control is connected to web server it is available 24*7 and can be accessed whenever needed.	Server
5.	Performance	Performance is high it uses 5mb caches	Wireless Sensor Network