

Project Design Phase – II

Technology Stack (Architecture & Stack)

Date	31October 2022
Team ID	PNT2022TMID43114
Project Name	Smart Waste Management System for Metropolitan Cities
Maximum Marks	4 Marks

Technical Architecture:

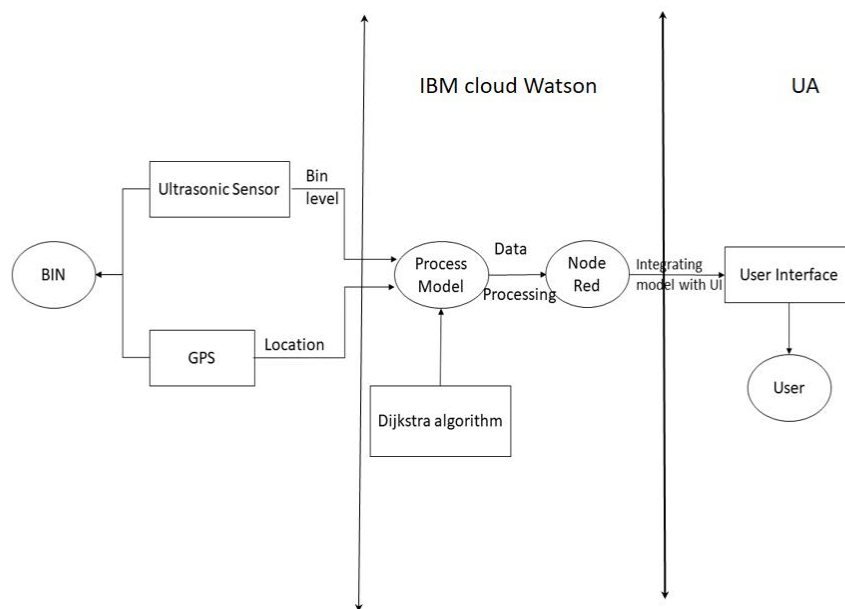


Table – 1: Components & Technologies:

S.NO	Component	Description	Technology
1.	User Interface	User can interact with the website	HTML, CSS, JavaScript/Angular Js / React Js etc.
2.	Application Logic – 1	Sensor values are imported to website	Java / python
3.	Application Logic – 2	Sensor are connected with the bin	IBM Watson STT service
4.	Process model	To import sensor values into website	Node Red

Table – 2: Application Characteristics:

S.NO	Characteristics	Description	Technology
1.	Open-source Framework	flask	python
2.	Scalable architecture	3- tier, Micro service	python
3.	Availability	Use of load balancers	python
4.	performance	100 request per sec	python