Project Design Phase-II

Technology Stack

(Architecture & Stack)

Date	18 NOVENBER 2022
Team ID	PNT2022TMID13889
Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES
Maximum Marks	4Marks

Technical Architecture:

The Deliverable chart include in the architectural diagram as shown below and the information is in the table 1 & table 2.

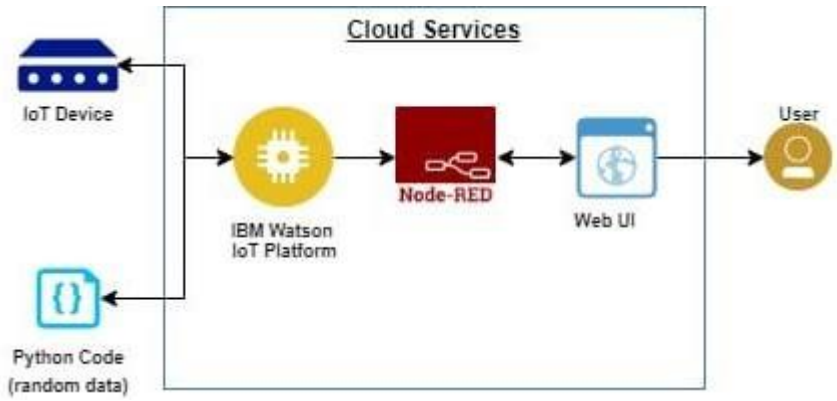

Table-1: Components & Technologies:

S.N0	Components	Description	Technology
1.	User interface	User interact with application using form,login,request notification	Python/HTML/MYSQL/JAVA
2.	Registration	User register in the application to connect bank account	Python/HTML/MYSQL/JAVA
3.	Verification	Verification in the application to connect bank account	Python/HDML/MYSQL/JAVA
4.	Sensors(IOT device)	A device that responds to a physical stimulus (such as heat,light,sound, pressure,magnetism, or a particular motion) and transmit a resulting impulse.	Raspberry pi/Arduino UNO/Temperature sensor/ultrasonic sensor
5.	Sends notification	Sends the notification to the cloud Database.	IBM Cloud
6.	Cloud Database (Node Red)	Database service on cloud.	Node Red
7.	Application	A computer software package that performs a specific function directly for an end user	IBM Wastson STT service

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Framework	Open source is a term denoting that a product includes permission to use its source code,design documents or content.	Bootsrap
2.	Scalable Architecture	It connected with scalable architecture	IBM Watson
3.	Availability	This application access is availble at thework time of the workers according to their corporation or municipality.	Python
4.	Performance	Record resource requests and save registered information. Availability of application.	IBM Watson