Project Design Phase-II

Technology Stack (Architecture Stack)

Team ID	PNT2022TMID22821
Project Name	Smart waste Management System for Metropolitan Cities
Maximum Marks	4Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as the table1 & table 2.
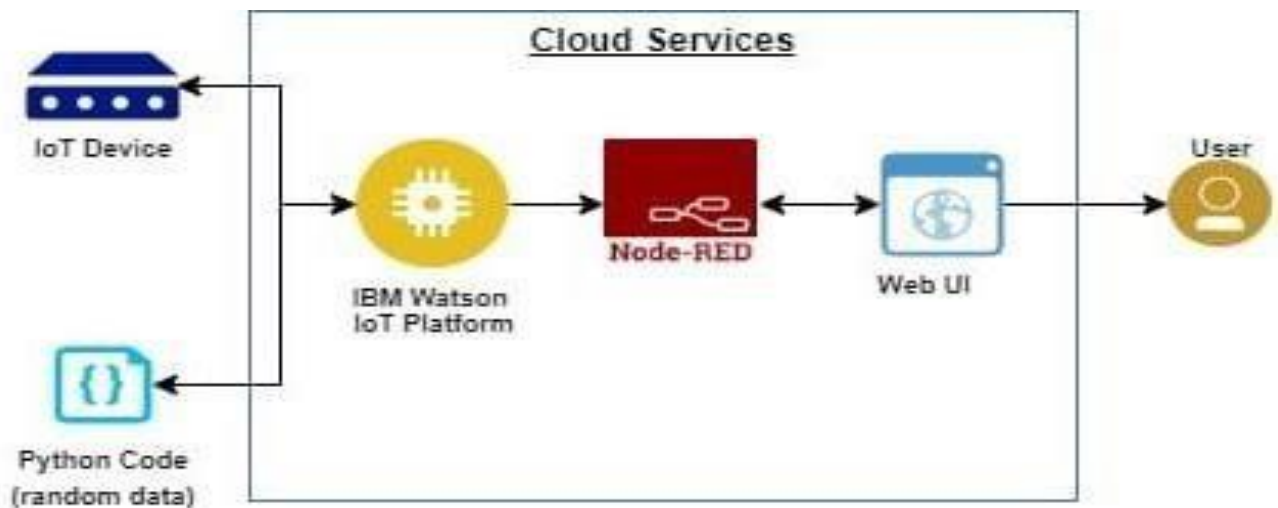

Table-1: Components & Technologies:

S. No	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.	Sensor (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
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 Watson 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.	Bootstrap
2.	Scalable Architecture	It connected with scalable architecture	IBM Watson
3.	Availability	This application access is available at the work 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