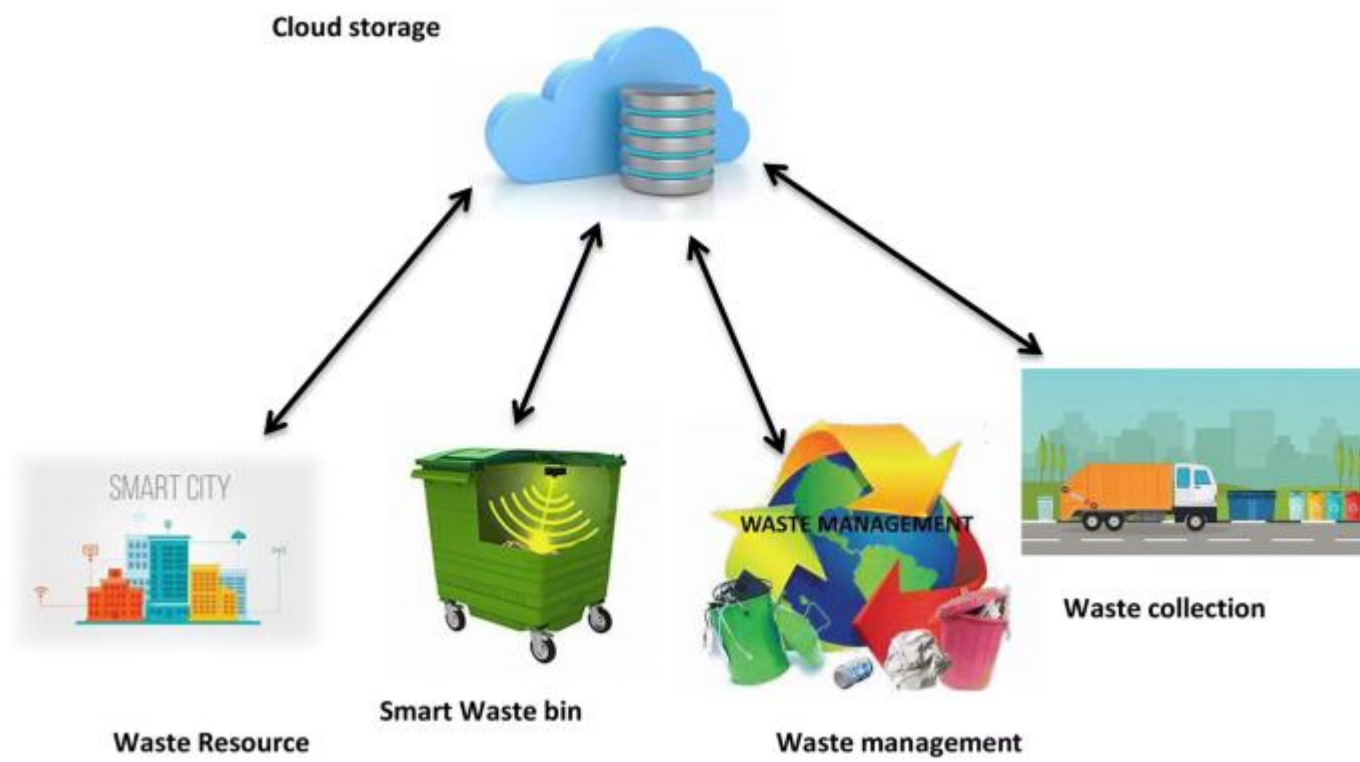


Project Design Phase-II
Technology Stack (Architecture & Stack)

| | |
|---------------|---|
| Date | 30 October 2022 |
| Team ID | PNT2022TMID17404 |
| Project Name | smart waste management system for metropolitan cities |
| Maximum Marks | 4 Marks |

Technical Architecture:

The architectural diagram of the model is as below and the Technology used is shown in table1 & table 2



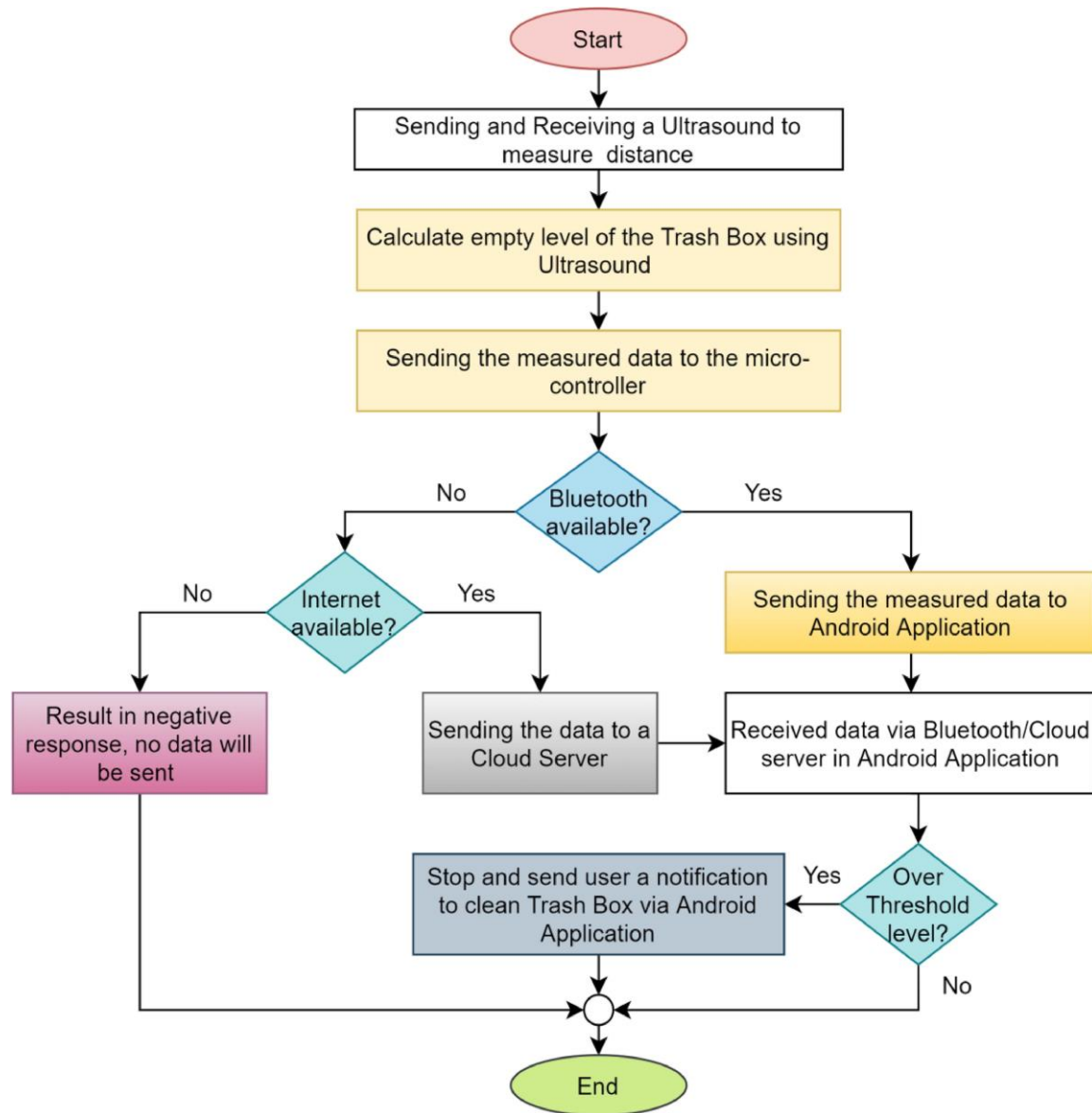


FIG. 1. BLOCK DIAGRAM

Table-1: Components & Technologies:

| S.No | Component | Description | Technology |
|-------------|---------------------|---|--|
| 1. | User Interface | How user interacts with application e.g., Mobile Application | HTML, CSS, JavaScript / Angular JS / Node Red. |
| 2. | Application Logic-1 | Logic for a process in the application | Java / Python |
| 3. | Application Logic-2 | Logic for a process in the application | IBM Watson STT service |
| 4. | Application Logic-3 | Logic for a process in the application | IBM Watson Assistant |
| 5. | Database | Data Type, Configurations etc. | MySQL, NoSQL, etc. |
| 6. | Cloud Database | Database Service on AI | IBM DB2. |
| 7. | File Storage | File storage requirements | IBM Block Storage or Other Storage Service or Local Filesystem |
| 8. | External API-1 | Purpose of External API used in the application | IBM Weather API, etc. |
| 9. | IoT Model | Purpose of AI Model is for integrating the sensors with a user interface. | IBM AI Platform |

| | | | |
|-----|------------------------------|--|-------------------------|
| 10. | Infrastructure (Server / AI) | Application Deployment on Local System / AI Local Server Configuration AI Server Configuration | Local, Kubernetes, etc. |
|-----|------------------------------|--|-------------------------|

