Project Design Phase-II

Data Flow Diagram & User Stories

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| DATE | 19 oct 2022 |
| TEAM ID | PNT2022TMID34892 |
| PROJECT NAME | Smart Waste Management System For Metropolitan Cities |
| MARK | 4 Marks |

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

START

Stop & send user a notification to clean Trash box via Android Application

Over threshold level

Received data in Android Application

Sending the measured data to Android Application

Wifi module

Sending the measured data to the ardino

Calculate empty level of the Trash Box using Ultrasound

Sending and Receiving an Ultrasound to measure distance

END

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| --- | --- | --- | --- | --- | --- | --- |
| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
| Customer (mobile user) | register | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | I can access my account / dashboard | High | Sprint-1 |
|  | Verify/login | USN-2 | As a user, I will receive confirmation email once I have registered for the application | I can receive confirmation email & click confirm | High | Sprint-1 |
|  | Monitoring | USN-3 | As a user ,I can monitor the level of bin to access | I can do it from any place | High | Sprint-2 |
|  | Altering | USN-4 | As a user, I can use or process the application through Gmail | I can monitor level of bin | Medium | Sprint-2 |
|  | Dashboard |  | All the login process and activities done will be displayed on the dashboard | Helpful for reminding the actions | High | Sprint-2 |
| Customer (official Web user) | Getting information | USN-5 | As a user ,I need to gather in the information from the real scenario | I can collect all the Information | High | Sprint-1 |
| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
| Administrator | ordering | USN-7 | As a user, I would order my officers to help clear the bin | I order them to clear the bin | High | Sprint-2 |
|  |  | USN-8 | As a user, I will monitor the bin. If bin gets filled, I will surely take actions to avoid them | I will monitor the bin | High | Sprint-2 |
|  | Obeying orders | USN-9 | As a user, I need to obey my higher officers command and take measures mentioned by them | I am in the way to obey the orders | Medium | Sprint-2 |