

Project Name	Smart Waste Management system forMetropolitan Cities
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## Project Design Phase II Functional Requirements

### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR.NO	Functional Requirements	Sub Requirement (Story/Sub-Task)
FR-1	User registration	Registration through e-mail id & Mobilenumber
FR-2	User confirmation	Confirmation via email Confirmation viaOTP
FR-3	Web application	Node-Red -Service
FR-4	Configure to Device	IBM Watson IOT Platform

FR-5	Database	Detailed database of bins and stands
FR-6	Python Script	IBM IOT Platform

## Non Functional Requirements

Following are the non-functional requirements of the proposed solution

FR.NO	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The reduction of waste
NFR-2	<b>Security</b>	Prediction in bin fullness
NFR-3	<b>Reliability</b>	Effective waste disposal
NFR-4	<b>Performance</b>	Optimize source allocation, reduce running costs and increase sustainability of waste services
NFR-5	<b>Availability</b>	Available for the allocated time by the municipality or the private companies

NFR-6	<b>Scalability</b>	This is very effective in managing waste in big city. Here priority system is used to clean the city all the time without any overflowing dumpsters
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