

SPRINT-4

TEAM ID	PNT2022TMID50677
PROJECT NAME	Smart Waste Management System For Metropolitan Cities

Date of the project:

Date	29 October 2022
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Project Name	Smart Waste Management Systems For Metropolitan Cities

TITLE	DESCRIPTION	RELEASE DATE
Literature Survey and Information Gathering	Surveying on the topic of selected project& gathering information by referring the, technical papers, research publications etc.	23 September 2022
Prepare Empathy Map	Prepare Empathy Map Canvas to capture the user pains& gains on particular issue.	25 September 2022
Ideation	Jot down the ideas by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility& importance.	27 September 2022
Proposed Solution	Prepare your proposed solution of the project which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	28 September 2022
Problem Solution Fit	Prepare problem- solution fit document.	28 September 2022
Solution Architecture	Prepare solution architecture document.	30 September 2022
Customer Journey Map	Prepare the customer journey maps to understand the user interactions& experiences with the application.	17 October 2022
Functional Requirement	Prepare the functional requirement for the project.	17 October 2022
Data Flow Diagrams	Draw the data flow diagrams to understand the flow of execution of the project.	18 October 2022

Technology Architecture	Prepare the technology architecture diagram.	18 October 2022
Milestone& Activity List	Prepare the milestones& activity list of the project.	29 October 2022
Delivery of Sprints	Submit the coding development of the project and submit in sprints. Sprint-1 Sprint-2 Sprint-3 Sprint-4	30 October 2022 05 November 2022 11 November 2022 17 November 2022

Publish data to the IBM cloud:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for navigation. The main content area displays a table of devices with the following columns: Device ID, Status, Device Type, Class ID, and Date Added. Two devices are listed, both with a status of 'Disconnected' and a device type of 'nodemcu'. The first device has a Device ID of 12345 and was added on Nov 11, 2022 10:30 PM. The second device has a Device ID of 55555 and was added on Nov 12, 2022 1:50 AM. The table also includes a search bar and a 'Device Simulator' toggle.

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	nodemcu	Device	Nov 11, 2022 10:30 PM
55555	Disconnected	nodemcu	Device	Nov 12, 2022 1:50 AM

Configuration of node-red to IBM:

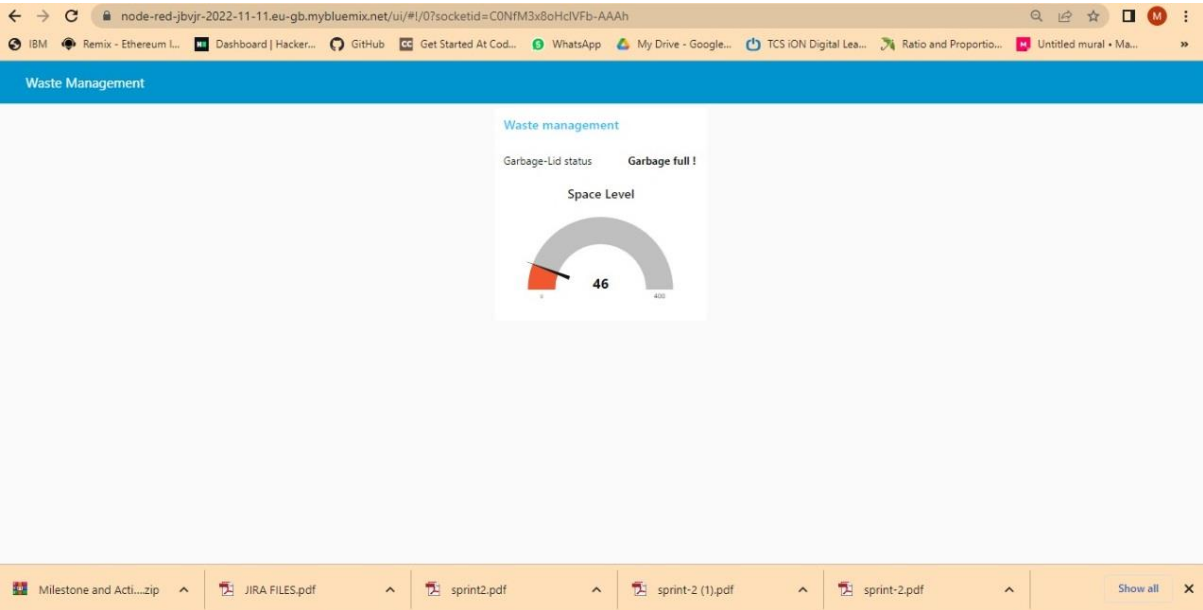
The screenshot shows the Node-RED web interface. The main workspace displays a flow with an 'inject' node connected to a 'function' node, which is then connected to a 'Space Level' node. The 'Edit IBM IoT in node' dialog is open, showing the following configuration:

- Authentication: API Key
- API Key: nodemcu
- Input Type: Device Event
- Device Type: ☐ All or ☒ nodemcu
- Device Id: ☐ All or ☐ 55555
- Event: ☒ All or ☐ data
- Format: ☐ All or ☒ json
- QoS: 0
- Name: IBM IoT
- Service: registered

The 'info' panel on the right shows the node's details, including the Node ID '4826a5519169877f' and the Type 'ibmiot in'.

The screenshot shows the 'Waste Management' dashboard. It features a gauge titled 'Space Level' with a value of 238. The gauge is a semi-circle with a green-to-yellow gradient. Above the gauge, the text 'Garbage-Lid status Garbage is not full !' is displayed. The dashboard is titled 'Waste management' and has a blue header bar.

Final output of the project:



JIRA File SPRINT-4:

