

Project Design Phase-I Problem - Solution Fit

Date	30 September 2022
Team ID	PNT2022TMID44233
Project Name	Smart Waste Management System for Metropolitan Cities
Maximum Marks	4 Marks

Problem – Solution Fit:

1.CUSTOMER SEGMENT(S) CS <ul style="list-style-type: none"> Metropolitan City citizens People whose house near the trashcans. Municipal Officers Trashvan Drivers & Workers 	6.CUSTOMER CONSTRAINTS CC <ul style="list-style-type: none"> Internet is necessary to use the web app The device may send wrong information 	5.AVAILABLE SOLUTIONS AS <p>The citizens can send the message about the smart dumpsters if any damage on the IoT device occurred.</p>
2.JOBS TO BE DONE/PROBLEMS J&P <ul style="list-style-type: none"> The dustbins need to empty after it got filled. The overflowing needs to avoid. Clean India should be maintained 	9.PROBLEM ROOT CAUSE RC <ul style="list-style-type: none"> High population in cities. Poor waste mangement system High amount of wastages produced by people 	7.BEHAVIOUR BE <p>The sensors senses the amount of waste in trashcans and the device sends the notification to the head office, they will come and collect the wastages.</p>
3.TRIGGERS TR <ul style="list-style-type: none"> To keep the city clean Hygienic environment 	10.OUR SOLUTION SL <p>Monitoring the dumpsters and send the information about the garbage level to the authenticated person to empty the trashcans using arduino device.</p>	8.CHANNELS of BEHAVIOUR CH <p>8.1 ONLINE Sends the information to the head office.</p>
4.EMOTIONS BEFORE/AFTER EM <ul style="list-style-type: none"> Before:Unhealthy environment After:Clean city and healthy environment 		<p>8.2 OFFLINE Trashvan collects the garbage from trash cans.</p>