PROJECT DESIGN PHASE 1

PROPOSED SOLUTION TEMPLATE

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| Date | October 2022 |
| Team ID | PNTIBMHp |
| Project Name | Smart waste management |
| Maximum Marks | 2 Marks |

PROPOSED SOLUTION TEMPLATE :

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| S.NO | PARAMETER | DESCRIPTION |
| 1. | Problem statement | The main issue with waste management is that waste is not collected on a regular basis because waste collectors are unaware of the overflow of trash containers. |
| 2. | Idea / solution description | The sensors detect the amount / level of waste in the trash container as people deposit waste in the trash container and notify waste collectors via the web application. |
| 3. | Novelty / Uniqueness | To dispose of their trash, homes and businesses across the country rely on routine waste collection services. Weekly services have been available for decades, but they aren't always the most cost-effective option.  Waste level sensors can be installed in bins. These devices collect and store fill level data, allowing collection services to forecast how frequently bins need to be emptied. This also prevents overflowing public containers from contaminating the surrounding area. |
| 4. | Social Impact / Customer Satisfaction | Aside from their economic and environmental benefits, the social benefits of "smart bins" are intriguing to citizens. They aid in: |
|  |  | 1. raise public awareness of the importance of environmental stewardship. 2. enhance street sanitation 3. collect and analyse waste volume data by area for better planning |
| 5. | Business Model | Waste Management generates revenue by providing residential, commercial, industrial, and municipal clients with a variety of disposal services and recycling solutions. |