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| DATE | 24-09-2022 |
| TEAM ID | B7-1A3E |
| PROJECT NAME | Smart Waste Management System for Metropolitan Cities |
| MAXIMUM MARKS | 2Marks |

PROJECT DESIGN PHASE-1

PROPOSED SOLUTION

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| S.NO | PARAMETERS | DESCRIPTION |
| 1. | Problem Statement (Problem to be solved) | World faces major environmental challenges associated with **waste generation and inadequate waste collection, transport, treatment and disposal**. Current systems cannot cope with the volumes of waste generated by an increasing urban population, and this impacts on the environment and public health. |
| 2. | Idea / Solution description | The solution is a method in which waste management is automated. Waste management using IoT is an innovative way that will help to keep the cities clean and healthy. |
| 3. | Novelty / Uniqueness | IoT **enables companies to automate processes and reduce labor costs**. It also cuts down on waste and improves service delivery, making it less expensive to manufacture and deliver goods, as well as offering transparency into customer transactions. |
| 4. | Social Impact / Customer Satisfaction | **IoT improves the total efficiency of waste collection and recycling**. The most common use in waste management is route optimisation, which reduces fuel consumption. |
| 5. | Business Model (Revenue Model) | Smart Waste Management **generates revenue through the provision of various waste management and disposal services and recycling solutions to residential, commercial, industrial, and municipal clients**. They generate revenue by means of collecting fee. |
| 6. | Scalability of the Solution | Scalability issues can be sorted out using IoT provided that the wireless network is wide range with high data speed and flexible software infrastructure. |