**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 20 OCT 2022 |
| Team ID | IBM-Project-20806-1659763636 |
| Project Name | Smart Waste Management System For Metropolitan Cities |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| --- | --- | --- |
| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | A big challenge in the urban cities is solid waste management. The garbage collecting authority in traditional waste management system doesn’t know about the level of garbage in dustbin, if the dust bins gets full by garbage then it gets overflowed as well as spelled out from the dustbin leading to unhygienic condition in cities |
|  | Idea / Solution description | \* The proposed system would  be able to automate the solid  waste monitoring process  and management process  with a help of IOT  \* raspberrypi zero and  ultrasonic sensors placed  top of the dustbin  \* whenever the dustbin fill it  will send the alert to the  corparation and we can  continuosly monitorng on the  website  \* For people to know,placing  led outside of the dustbin, led  will blink whenever dustbin fill |
|  | Novelty / Uniqueness | \* Continuosly monitor on web  \* Send a notification alert  \* blnking led |
|  | Social Impact / Customer Satisfaction | \* Reduction of manpower,  \* avoid pollution |
|  | Business Model (Revenue Model) | \* This system helps in keeping the  surrounding clean and pollution free  \* Public gets benefited  \* User friendly model  \* Affordable cost |
|  | Scalability of the Solution | \* It Can be used in all wifi enabled  places such theatres, institutions,  mall etc |