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1. INTRODUCTION

**1.1 Purpose:**

In the metropolitan cities due to insincerity of some workers the garbage deposits remain unattended leading to pollution in the residential areas. The Municipal Corporation wants to develop a software which would monitor whether the garbage deposits are filled or not and if filled would immediately attend it to clean the respective deposit.

**1.2 Addressing the Need :**

To address the problem certain steps can be followed:

1. A sensor can be placed at each garbage deposits which would detect whether the garbage deposits are filled or not.

2. All the sensors shall be inter-connected through a common server which would be monitored by the administrator.

3. As soon as one of the garbage deposits has been filled the sensor would send signal to the server by which the administrator would be informed about the status of the deposits.

4. An Application can be developed which would update the status of each garbage deposits that would connect the administrator with the garbage collectors so that they can take the necessary actions.

5. After the garbage has been collected by the workers they would update the status of the particular garbage deposits which would be ensured by the administrator about the completion of the work thus solving the problem.

**1.3 Prospective Users :**

The prospective users would mainly include:

1. The Administrator
2. The Garbage collectors

**1. The Administrator :** The admin would monitor whether the workers are working sincerely and whether the garbage deposits are cleared properly and in a regular interval.

2. **The Garbage Collectors :** The garbage collectors on receiving information from the administrator would take the necessary steps and after completion of their work would inform the administrator who then would take the necessary steps.

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**1.4 Issues and Challenges :**

**2. Planning and Scheduling of the work :**

|  |  |  |
| --- | --- | --- |
| **Week Number** | **Date** | **Planning** |
| Week 1 | 08.02.2019 | Development of SRS Document for the project |
| Week 2 |  |  |
| Week 3 |  |  |
| Week 4 |  |  |
| Week 5 |  |  |
| Week 6 |  |  |
| Week 7 |  |  |
| Week 8 |  |  |
| Week 9 |  |  |

**3.a. Functional Requirements :**

It covers the main functions that should be provided by the system. When expressed as *user* requirement, they are usually described in an abstract way.

1. **Sensors in Garbage Deposits**: The sensors in garbage would send digital signals to the administrator once the garbage deposits are filled or emptied.

| **Input** | **Output** |
| --- | --- |
| Weights of garbage dumped | Digital Signal   1. 1-if filled 2. 0-if not filled |

1. **Administrator informing the Workers** : The administrator on receiving info from the servers would send an SMS or some notification to the workers who on receiving the message would act accordingly.

| **Input** | **Output** |
| --- | --- |
| Digital signal on server as send from the garbage pit | Send notification to the workers to take necessary actions. |

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**3. Workers on completion of work :**  The workers on completion of work would send the information to the administrator and simultaneously the sensor attached there would send information to the server. The administrator on matching 3both the records would update the same on the application and thus the corresponding work would be completed.

| **Person** | **Input** | **Output** |
| --- | --- | --- |
| **Workers** | Notification about which garbage is filled | Attend the garbage pit to clean it and after completion send the information to the administrator. |
| **Administrator** | 1. Info about cleaning status from the workers. 2. Sensors giving info to the server about the status of the corresponding garbage pit. | Update the status of the garbage pit on the application. |