**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID49801 |
| Project Name | Project – Smart waste management system for metropolitan cities |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Authentication | Only the authorized people for that product will know the ensures . |
| FR-4 | User Interface | The monitor able to see the location of garbage pin when the garbage pin will full also track the exact location. |
| FR-5 | Notification | Notified through mobile and mail. |
| FR-6 | Identification | When the garbage pin level increasing, the cleaners get the alert with their location. |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | We can access the garbage pin location through mobile application. It is portable and comfortable to use. |
| NFR-2 | **Security** | Database security and the safety of the product while in use. |
| NFR-3 | **Reliability** | It creates a good environment for users to use. Once logged in the webpage will available until the log out. |
| NFR-4 | **Performance** | A notification must send immediately. Database needs to be updated every seconds. |
| NFR-5 | **Availability** | The data will be available whenever needed. |
| NFR-6 | **Scalability** | The process must be flexible to use at anytime. |