TEST CASE REPORT

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| Team ID | PNT2022TMID34358 |
| Project Name | Smart Waste Management System for Metropolitan  Cities - IOT |
| Maximum Marks | 4 marks |

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| Test case | Feature  Type- Bin Level | Component | Test  Case  Scenario | Pre-  Requisite | Availability | Test Condition | Expected Result | Actual  Result | Status | Comments | Accessed By |
| Test case  1 | Empty | Ultrasonic Sensor | When  Bin is  empty | Ultrasoncic sensor PIR  Motion  Sensor  Garbage Bins | Bin is accessible to users | Bin Level == 0 | Displays Bin level and space left | Working as expected | Pass |  | User |
| Test case  2 | Accessible | Ultrasonic Sensor | When  bin level is below  50 % | Ultrasoncic sensor ,  PIR Motion  Sensor ,  Garbage Bins | Bin is accessible to users | Bin Level < 50 | Displays Bin level and space left | Working as expected | Pass |  | User |
| Test case  3 | Accessible | Ultrasonic Sensor | When  bin level  is above  50 | Ultrasoncic sensor ,  PIR Motion sensor ,  Garbage Bins | Bin is accessible to users and the admin  gets warning about the bin level | Bin Level > 50 | Displays Bin level and space left | Working as expected | Pass |  | User |
| Test case  4 | Accessible | Ultrasonic Sensor | When  bin level is below  75 % | Ultrasoncic sensor ,  PIR Motion sensor ,  Garbage Bins | Bin is accessible to users and the admin gets warning about the bin level | Bin Level < 75 | Displays Bin level and space left | Working as expected | Pass |  | User |
| Test case  5 | Limit exceeded | Ultrasonic Sensor | When  bin level  is above  75 % | Ultrasoncic sensor ,  PIR Motion sensor ,  Garbage Bins | Bin is not accessible to the users, the admin recieves High alert and seals the the bin to avoid overflow. | Bin Level > 75 | Displays  Bin is  FULL and Seals the bin. | Working as expected | Pass | The system starts to  sense the  level once the Bin is emptied  partially or fully | User/Admin |