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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Feature Type- Bin Level | Component | Test Case Scenario | | Pre- Requisite | | Availability | | Test Condition | Expected Result | Actual Result | Access By |
| Test case 1 | Empty | Ultrasonic Sensor | When Bin is empty | | Ultrasoncic sensor PIR Motion | | Sensor Garbage Bins | | Bin Level  == 0 | Displays Bin level and space left | Working as expected | User |
|  |  |  |  |  | |  | |  |  |  |  |  |
| Test case 2 | Accessible | Ultrasonic Sensor | When bin level is below50  % | | Ultrasonic sensor , PIR Motion Sensor , ,  Garbage Bins | | ,bin is accessible to user | | Bin Level  < 50 | Displays Bin level and space left | Working as expected | User |
| Test case 3 | Accessible | Ultrasonic Sensor | When bin level is above 50 | | Ultrasonic 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 space left | Working as expected | User |
| Test case4 | Accessible | Ultra sonic sensor | When bin level is below75% | | Ultrasonic 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 space left | Working as expected | User |
| Test case  5 | Accessible | Limit exceedUltrasonic  sensor | When bin level is  above | | Ultrasoncic sensor ,  PIR Motion | | Bin is not accessible  To the | | Bin level>75 | Display bin level  And | Working as expected | User |

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| Project Name | Smart Waste Management System for Metropolitan Cities - IOT |
| Maximum Marks | Maximum Marks |
| Date | 16 Nov2022 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 75% | Sensor , , Garbage Bins | users,the admin receives high alert and seals the bin to avoid  overflow |  | space left |  |  |
|  |  |  |  |  |  |  |  |  |  |