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| Test case ID | Feature  Type- Bin  Level | Component | Test Case Scenario | | Pre-  Requisite | | Availability | | Test  Condition | Expected Result | Actual Result | Accesse 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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| Team ID | PNT2022TMID29903 |
| Project Name | Smart Waste Management System for  Metropolitan Cities - IOT |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 75% | Sensor , ,  Garbage  Bins | users,theadmin receives high alert and seals the bin to avoid overflow |  | space  left |  |  |
|  |  |  |  |  |  |  |  |  |  |