**ALL DEFECT LIST**

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| Defect # | Location | Defect/inconsistency type | Classification | Author | Status | Date corrected |
| 1 | Section - 4.1 -Product Perspective – Usage of term IOT. | Forward Reference - No prior explanation /reference to it. | Minor | Apoorv | Open | 13-Jul-2020 |
| 2 | Section - 4.3 -Needs and Features – Security Measures - Home Alarms. | Unintelligibility - Stating just a device name is not enough to define it as a feature and its purpose. | Minor | Nikhil | Open | 13-Jul-2020 |
| 3 | Missing feature for Window access control | Omission – No specific feature mentions anything about an automated Window access control | Major | Nikhil | Open | 13-Jul-2020 |
| 4 | Section - 4.3 - Needs and Features – Multi User Mode of Operation and Household Automation. | Strong Conflict – Multiple users can trigger contradictory commands for the same room. Say switch on the AC and Open Window | Major | Apoorv | Open | 13-Jul-2020 |
| 5 | Needs and Features - Security Measures – Exploiting Emergency Detection for doing an Intrusion. | Strong Conflict – An intruder might try to create an emergency like situation say a small fire to trigger Emergency Detection system to open all doors and windows. | Major | Apoorv | Open | 13-Jul-2020 |

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| 6 | Assumptions:  Controller and the smart devices both provide support for connectivity using Wi-Fi/Bluetooth | Poor Structuring  Assumption does not differentiate local and remote connectivity | Minor | Divya | Open |  |
| 7 | Security Measures:  Home Alarm and Intrusion detection | Overlapping - Home Alarm is triggered when intrusion is detected | Minor | Divya | Open |  |
| 8 | Emergency Detection | Incomplete - Does not provide insight on how to notify emergencies | Major | Divya | open |  |
| 9 | Automation of the Lightning of the room and Automated window blinds | Strong Conflict - Lighting in a room can be affected by natural light | Minor | Divya | open |  |
| 10 | Emergency notification | Omission - Emergency notifications should also be displayed in local monitors and through voice based assistants | Major | Divya | open |  |
| 11 | Storage | Overlapping - Local and cloud storage | Minor | Divya | open |  |
| 12 | Routine Activities | Overlapping - Kitchen and medicine inventory management | Minor | Divya | open |  |
| 13 | Emergency Notification & Safety measures | Weak Conflict - Automated calls should not happen if the customer takes responsibility for the emergency notification event. | Minor | Divya | open |  |

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| 14 | Section: 3.2 User environment; Page 4  Self-evolving Mode | Forward Reference:  Definition of self-evolving mode was given later in Appendix | Minor | sakib | open |  |
| 15 | Section 4.4: Alternative and Competition:  Bell Canada Description | Unintelligibility | minor | sakib | open |  |
| 16 | Section 4.3: Needs and Feature  Mode of Operation  for user vs device to work | Terminology clash | major | sakib | open |  |
| 16 | Section 4.2 Dependency  last point in dependency is not clear | opacity | major | sakib | open |  |
| 17 | Section 4.4  Needs and Feature  Mode of access control, remote vs local | Poor Structuring:  both home and remote control are internet based | major | sakib | open |  |

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| 18 | Need & Features :  Automated call to 911 and fire department | **Overspecification** : Sometime fire alarm rings for a while but it can be easily control at home instead of disturbing these department | Major | Manik Hossain | Open |  |
| 19 | Need & Features:  Routine Activities like kitchen, medicine inventory management and automated feeding plan for pets. | **Opacity**: in this vision document there is no rationale, authoring or dependencies (these are invisible) for this need and features. | Minor | Manik Hossain | Open |  |
| 20 | Need & Features: Smart irrigation and automated gardening, swimming pool maintenance | **Noise**: There is no specification of any real world problem on these topics. | Major | Manik Hossain | Open |  |
| 21 | Features and Need:  Safety Measures | **Terminology / Designation Clash**: 911 and fire control department are same but used in different ways. | Minor | Manik Hossain | Open |  |
| 22 | Needs & Features: Automated feeding plan for pets | **Unfeasibility**: it seems unrealistic because it cannot be implemented in terms of developer perspective. | Minor | Manik Hossain | Open |  |

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| 25 | Features for specially-abled members of the family. | Omission | Minor | Nikhil | Open |  |
| 26 | 4.3 Needs and features:  Self-evolving mode | Forward reference | Minor | Nikhil | Open |  |
| 27 | 5.2 and 5.3 Platform requirements:  Mentions about Java and Linux which are more technical terms. | Unintelligibility | Major | Nikhil | Open |  |
| 28 | 2.2: Product Position Who: talks only about managing devices and automation of tasks.  Should mention security and other stuff. | inadequacy | minor | Nikhil | open |  |
| 29 | Consideration for privacy of the users | omission | major | Nikhil | open |  |
| 30 | User environment:  It should detail the current working environment of the user. Instead the document focuses on how user can access the smarthome+ system. | Poor structuring | major | Nikhil | open |  |
| 31 | Usage pattern Analyzer | infeasible | minor | Nikhil | open |  |
| 32 | Needs and Feature:  Automated Rain harvesting ,  Alternative energy harnessing system,  Is the same | Terminology inconsistency | major | Nikhil | open |  |