Task 1 – **Consolidated Inspection Defect and Inconsistency List**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Defect # | Location | Defect/inconsistency type | Classification | Author | Status | Date corrected |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |

* To be filled by each of team members separately
* Add as many columns as necessary
* Classification values: Major/Minor
* Status values: Open/Closed
* Defect type values: **Categories:** Opacity, Remorse, Noise, Poor modifiability, forward reference, Overspecification, Poor structuring, Unfeasibility, Unintelligibility
* Type of inconsistency : terminology, designation, structure clash; strong, weak conflict

**INSPECTION SUMMARY REPORT (one per team)**

Project: Smart Home+

General:

Total Number of open defects\_\_\_\_\_\_\_\_\_\_\_

Total Number of open conflicts\_\_\_\_\_\_\_\_\_\_\_

Total Number of close defects\_\_\_\_\_\_\_\_\_\_\_

Total Number of close conflicts\_\_\_\_\_\_\_\_\_\_\_

Summarize number of defects by defect type and conflict type

|  |  |  |
| --- | --- | --- |
| Defect type | Number of open defects | Number of close defects |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| Conflict type | Number of open conflicts | Number of close conflicts |
|  |  |  |

Total Person-Hours expended in inspection\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Task 2 – Documenting conflicts**

Build an interaction matrix (Kotonya & Sommerville, 1997) based on the information generated in task 1

**Task 3 –  Conflict resolution**

Apply operators to transform the conflicting statements (or objects involved in such statements) derived  from task 2.  If necessary, introduce new requirements

**Task 4 –  Conflict evaluation**

Evaluate the conflict counter measures proposed in Task 3, and select the most cost effective ones.

Use Weighted matrices.

**APPENDIX:**

Project: **Smart Home+** Inspector: **Apoorv Semwal**

Time spent by Inspector :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Defect # | Location | Defect/inconsistency type | Classification | Author | Status | Date corrected |
| 1 | Product Perspective – Usage of term IOT without providing any prior explanation /reference to it. | Forward Reference | Minor |  | Open |  |
| 2 | Needs and Features – Security Measures - Home Alarms – Stating just a device name is not enough to define it as a feature and its purpose. | Unintelligibility | Major |  | Open |  |
| 3 | Needs and Features – User Mode of Operation – In Multi User Mode User 1 sends cmd to lower room temperature using AC while User2 sends cmd to open the windows on a sunny day. | Strong Conflict | Major |  | Open |  |
| 4 | Needs and Features – Emergency Detection System detects a fire emergency and User Sends command to close windows and doors. | Strong Conflict | Major |  | Open |  |
| 5 | Security Measures - System should automatically locks all point of entries when an intrusion happens and user trying to unlock a point of entry at the same time. | Strong Conflict | Major |  | Open |  |
| 6 | Energy Management - System detects it is raining and did not start daily evening garden water sprinklers but Users try to send commands to open Garden Water Sprinklers. | Strong Conflict | Minor |  | Open |  |