

Incongruous Checklist

| ID | Reqr ID | Classification | Rationale |
|-------|---------|---|--|
| IR-01 | BR-03 | Inconsistent with another requirement/Substantively invalid | Manual categorization (BR-08) is required for items without barcodes, but proposes Auto-population via GS1 database (TR-08) |
| IR-02 | BR-06 | Not feasible or unrealistic | Impractical 72-hour alert window. May be too late for many perishables (milk, bread) and too early for others (canned goods) |
| IR-03 | BR-08 | Inconsistent with another requirement | Price synchronization frequency vs. performance. May create stale pricing during promotions. Frequent sync conflicts with offline caching strategy (TR-09). |
| IR-04 | BR-09 | Ambiguous & Inconsistent with another requirement | Undefined "High Risk" stockout. Unverifiable and potentially inconsistent with auto-list generation logic (BR-07). |
| IR-05 | BR-10 | Ambiguous, Inconsistent, and/or Compound requirements | OTP via registered contacts (BR-10) and time-limited tokens (TR-13) are different implementations for the same feature. Ambiguous registered contacts (email/phone). |
| IR-06 | TR-04 | Unseemly prioritized | Desirable precedence contradicts Essential TR-03, hyperscale significantly increases cost and complexity for a home inventory app. |
| IR-07 | TR-06 | Not feasible or unrealistic | Mandating Java/XML conflicts with modern Android practices. Kotlin is Google-preferred. |
| IR-08 | TR-07 | Unseemly prioritized | Desirable camera integration for Essential item scanning (BR-02). If TR-07 fails, BR-02 cannot be implemented. |
| IR-09 | TR-08 | Not feasible or unrealistic | Expensive and restrictive for GS1 API access. Conflicts with budget-friendly (TR-05) and may violate the offline-first requirement (TR-09). |
| IR-10 | TR-09 | Inconsistent with another requirement | Local caching (TR-09) creates sync conflicts with stock updates (BR-04) from the server. Missing a conflict resolution. |
| IR-11 | TR-11 | Suspected incompleteness | No clear business owner or maintenance plan for a parallel web development track. |
| IR-12 | TR-12 | Suspected incompleteness | Final documentation handover lacks interim documentation requirements for agile development throughout the project lifecycle. |

The indicated incongruent requirements are in the requirements tree provided in Appendix A for reference.

Appendix A - Requirements Tree

L0: SmartReplenish

