

Requirements Checklist

Use this checklist to review an SRS document to detect faults. For each item on the checklist below, examine the SRS to determine if you can adequately answer the question. While using the checklist, please indicate any faults you uncover (whether or not they directly correspond to a question on this checklist), using the fault form provided. The letter(s) in parentheses next to each checklist item, or group of items, indicates the types of fault. If you find a fault related to one of these items, record that type information on the fault form. If you find additional faults, not related to specific questions on the checklist, please classify them into one of the existing categories, if possible, otherwise, classify as Other (O).

- **General (G)**
 - Are the goals of the system defined?
 - Are the requirements clear and unambiguous?
 - Is a functional overview of the system provided?
 - Is an overview of the operational modes provided?
 - If assumptions that affect implementation have been made, are they stated?
 - Have the requirements been stated in the terms of inputs, outputs, and processing for each function?
 - Are all functions, devices, constraints traced to requirements and vice versa?
 - Are the required attributes, assumptions and constraints of the system completely listed?

- **Omission**
 - Missing Functionality (MF)
 - Are the desired functions sufficient to meet the system objectives?
 - Are all inputs to a function sufficient to perform the required function?
 - Are undesired events considered and their required responses specified?
 - Are the initial and special states considered (e.g., system initiation, abnormal termination)?
 - Missing Performance (MP)
 - Can the system be tested, demonstrated, analyzed or inspected to show that it satisfies the requirements?
 - Missing Interface (MI)
 - Are the inputs and outputs for all interfaces sufficient?
 - Are the interface requirements between hardware, software, personnel and procedures included?
 - Missing Environment (ME)
 - Have the functionality of hardware or software interacting with the system been properly specified?

- **Comission**
 - Ambiguous Information (AI)
 - Are the individual requirements stated so that they are discrete, unambiguous, and testable?
 - Are all mode transitions specified deterministically?

- Inconsistent Information (II)
 - Are the requirements mutually consistent?
 - Are the functional requirements consistent with the overview?
 - Are the functional requirements consistent with the actual operating system?
- Inconsistent and Extra Functionality (EF)
 - Are all desired functions necessary to meet the system objectives?
 - Are all inputs to a function necessary to perform the required function?
 - Are the inputs and outputs for all interfaces necessary?
 - Are all the outputs produced by a function used by another function or transferred across an external interface?
- Wrong Section (WS)
 - Are all the requirements, interfaces, constraints, etc. listed in the appropriate sections?