SOFTWARE REQUIREMENT SPECIFICATION (SRS) DOCUMENT

Software requirements specification establishes the basis for an agreement between client and developer on how the software product should function.

A software requirements specification (SRS) is a description of a software system to be developed.

Software requirements specification is a rigorous assessment of requirements before the more specific system design stages, and its goal is to reduce later redesign. It should also provide a realistic basis for estimating product costs, risks, and schedules

The software requirements specification (SRS) is a communication tool between users and software designers. The specific goals of the SRS are as follows:

- Facilitating reviews
- Describing the scope of work
- Providing a reference to software designers (i.e. navigation aids, document structure)
- Providing a framework for testing primary and secondary use cases
- Including features to customer requirements
- Providing a platform for ongoing refinement (via incomplete specs or questions)

The organization of an SRS is as follows:

A. Purpose
  1. Definitions
  2. Background
  3. System overview
  4. References
B. Overall description
  1.Product perspective
    1. System Interfaces
    2. User interfaces
    3. Hardware interfaces
    4. Software interfaces
    5. Communication Interfaces
    6. Memory constraints
  2.Design constraints
    1. Operations
    2. Site adaptation requirements
  3. Product functions
  4. User characteristics
  5. Constraints, assumptions and dependencies

C. Specific requirements
      1. External interface requirements
      2. Performance requirements
      3. Logical database requirement
      4. Software system attributes
            1. Reliability
            2. Availability
            3. Security
            4. Maintainability
            5. Portability
      5. Functional requirements
      6. Environment characteristics
            1. Hardware
            2. Peripherals
            3. Users