

How software requirements specifications are used in the development of the software ? Write the characteristics for the software requirements specifications ?

Some ways that the SRS is used in the development of software:

1. **Basis for Design:** The SRS document serves as the basis for designing the software system. It provides the development team with a clear understanding of what features and functionalities the software system should have.
2. **Development:** The SRS document guides the development team during the software development process. It ensures that the development team is developing the software system according to the requirements.
3. **Verification and Validation:** The SRS document is used to verify and validate the software system. The requirements are used as a benchmark to ensure that the software system meets the customer's expectations.
4. **Testing:** The SRS document is used as a basis for creating test cases to test the software system. It ensures that the software system has been developed according to the requirements.
5. **Maintenance:** The SRS document serves as a reference for maintaining the software system. It provides the development team with a clear understanding of what features and functionalities the software system should have.

Characteristics of Software Requirements Specifications:

1. **Clear:** The requirements should be clear, concise, and unambiguous. It should be easy to understand and should not lead to any confusion.
2. **Complete:** The SRS document should cover all the requirements of the software system. It

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should include all the functional and non-functional requirements.

3. Consistent: The requirements should be consistent with each other. There should not be any contradictions or conflicts among the requirements.
4. Verifiable: The requirements should be verifiable, i.e., it should be possible to test whether the software system meets the requirement or not.
5. Traceable: The requirements should be traceable, i.e., it should be possible to trace each requirement to its source, such as the customer's request or regulatory requirements.
6. Feasible: The requirements should be feasible, i.e., it should be possible to implement them within the given constraints, such as time, budget, and resources.