

SRS Document

CS 303 Software Engineering Lab

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SRS Document

Intro

- Software Requirement Specification Document.
- It is a detailed description of how a product should work and how the product development team should implement it.
- SRS are usually written by product managers or business analysts, who directly communicate with clients or who do user research and gather future products' requirements.
- A good SRS is not solely technical, as it also covers business goals, metrics, user problems, etc.

SRS Document

Reasons for Documentation

- Visibility (it is needed for project plan)
- Formalisation leads to better clarity when expressed in writing
- Standard guide for product developers support
- Serves as a communication point
- Maintenance and evolution

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- **Introduction**

- It sets the expectation of the product you are building.

- **Overall Description**

- Its overall purpose is to consider determining elements that influence the requirements.

- **External Interface Requirements**

- It tells how our product will interface with other components - user, hardware, software, communication.

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- **System Features**

- Functional requirements are sorts of system features. These are features that a system must have in order to work.

- **Other Non-functional requirements**


- The system attributes such as security, reliability, performance, maintainability, scalability, usability are defined here.

- **Other Requirements**

- The requirements barring functional and non-functional requirements are mentioned here.

Functional and Non-functional requirements

FUNCTIONAL vs NONFUNCTIONAL REQUIREMENTS		
	Functional requirements	Nonfunctional requirements
Objective	Describe what the product does	Describe how the product works
End result	Define product features	Define product properties
Focus	Focus on user requirements	Focus on user expectations
Documentation	Captured in use case	Captured as a quality attribute
Essentiality	They are mandatory	They are not mandatory, but desirable
Origin type	Usually defined by user	Usually defined by developers or other tech experts
Testing	Component, API, UI testing, etc. Tested before nonfunctional testing	Performance, usability, security testing, etc. Tested after functional testing
Types	External interface, authentication, authorization levels, business rules, etc.	Usability, reliability, scalability, performance, etc.

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How to write a good SRS document?

Read this article

**SRS Documentation template
can be found [here](#)**