What is a requirement?

Requirement is statement of what the system must do and all the parts the system should contain. The requirements’ main goal is to describe the business needs, what users need to do, the software requirements, and all parts the system should have and how it should be built. During the analysis phase, requirements are mode focused on the business and what the system should do to satisfy business needs and have a proper system.

What are different levels of requirements?

The different levels are business requirements geared for the stake holders and their desired outcome. There are functional requirements that are the bridge between business and technical saying what the system must do for the users. Then there are non-functional requirements for the characteristics of the system. Lastly there are system requirements stating how the system should be built out.

What is the difference between User and Functional requirements? (give examples of each)

User requirements describe tasks that users perform as part of business operation. Some examples are, scheduling a client appointment and determining available credit. In assisting with and clarifying what exactly the user steps would be, use cases are used. On the other hand functional requirements define how to system will support the user in completing these tasks. For instance, if user requirement is to schedule client appointment, then the functional requirement would be to determine client availability and find available openings. So here it is clear that functional requirements are associated with the process the system has to perform to support the user. Through both these requirements the user will be able to reveal the processes that well be needed. For instance, a system must have customer order history for three years.

 What are “features”? Are they different from requirements? Please explain.

Features are user stories that describe the functionality from the user perspective. It deals with what’s and how’s of the system. The features are said to be done once the acceptance criteria is met. The feature is used usually with agile methodology. Requirement is a statement of what the system must do, and the focus of requirements will change over time as the project moves from planning to analysis to design to implementation. Requirements are dealing with mode of waterfall methodology. User stories are lighter in details than requirements.

What are non-functional requirements? (give examples of non-functional requirements)

The non-functional requirement is the quality, design, implementation constraints, and external interfaces. These requirements are made up of important behavioral properties the system is made up of. For instance the system being computer based or mobile based would be a non-functional requirement. The use of nonfunctional requirements is during the design phase when there is the talk about user interface and architecture. The characteristics that non-functional describe are: operational, performance, security, and cultural and political.

Explain requirements development process

The requirement development process starts with both business person and analyst working together. First task will be for analyst to determine the primary source of requirements and the project sponsor as well as who the users will be. They must also decide that will be the best way to elicit the requirements from the stakeholders. Some options are: including interviews, questionnaires, observation, joint application development (JAD), and document analysis. Then the analyst works with the project team and the business incase of changes and for requirements. During the whole process use cases, process models, and data models will be used.

Why is it important to have high-quality requirements?

It is important since it is directly stating what needs to be implemented and what is expected from the system. They need to be properly understood by stakeholders. Without high quality requirements, will not get the proper project that the stakeholders will want and would not have written proper requirements for the development team to follow. It should be unambiguous and testable.