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Software Engineering Tutorial

Software Requirements

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The software requirements are description of features and functionalities of the target system. Requirements convey the expectations of users from the software product. The requirements can be obvious or hidden, known or unknown, expected or unexpected from client's point of view.

#### Requirement Engineering

The process to gather the software requirements from client, analyze, and document them is known as requirement engineering.

The goal of requirement engineering is to develop and maintain sophisticated and descriptive "System Requirements Specification" document.

#### Requirement Engineering Process

It is a four step process, which includes -

- Feasibility Study
- Requirement Gathering
- Software Requirement Specification
- Software Requirement Validation

Let us see the process briefly -

#### Feasibility study

When the client approaches the organization for getting the desired product developed, it comes up with a rough idea about what all functions the software must perform and which all features are expected from the software.

Referencing to this information, the analysts do a detailed study about whether the desired system and its functionality are feasible to develop.

This feasibility study is focused towards goal of the organization. This study analyzes whether the software product can be practically materialized in terms of implementation, contribution of project to organization, cost constraints, and as per values and objectives of the organization. It explores technical aspects of the

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