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** What is requirements analysis? Why do we need it?**

Requirements analysis is the process of determining user expectations for a new or modified product. These features, called requirements, must be quantifiable, relevant and detailed. In software engineering, such requirements are often called functional specifications. Requirements analysis is an important aspect of project management.

Requirements analysis is a team effort that demands a combination of hardware, software and human factors engineering expertise as well as skills in dealing with people.

We need requirements analysis to give out the goal for the project.

** What are the main objectives of requirements analysis?**

1. Problem recognition
2. Evaluation and synthesis
3. Modelling
4. Specification
5. Review

** What are the questions which should be clarified during requirements analysis?**

Questions should be primary focused on what not how.

What data does the system produce and consume, what functions must the system perform, what behavior does the system exhibit, what interfaces are defined and what constraints apply.

** What are the challenges during requirements analysis?**

There are some problems during requirements analysis that we have to face which are:

1. Customers don’t really know what they want
2. Requirements change during the course of the project
3. Customers have unreasonable timelines
4. Communication gaps exist between customers, engineers and project managers
5. The development team doesn’t understand the politics of the customer’s organization.