

L/O

Explain Requirement Model in
Detail:

Qno 1

Describe Eliciting requirements in detail:

Ans:- Requirements elicitation also called requirements gathering combines element of problem solving, elaboration, negotiation and specification. There are four methods of requirements elicitation-

(1) Collaborative Requirements Gathering:-

Many different approaches to collaborative requirements gathering have been proposed. Each makes use of different scenario, but all apply some variation on the following basic guidelines:-

- Meetings are conducted and attended by both software engineers and other stakeholders.

- Rules for preparation and participation are established.

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(-) A facilitator (a customer, a developer) conducts the meeting.

(-) A "destination mechanism" (can be work sheets, flip charts) is used.

(2) Quality Function Deployment.

Quality Function Deployment (QFD) is a quality management technique that translates the need of the customer into technical requirements for software.

QFD identifies three types of requirements:

(i) **Normal Requirements**:- The objectives and goals that are stated for a product or system during meetings with the customer. If these requirements are present, the customer is satisfied.

(ii) **Expected Requirements**:- These requirements are implicit to the product ~~during~~ ~~meetings~~ or systems and may be fundamental. Their

absence will cause for significant dissatisfaction-

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(1) Exciting Requirements: These features go beyond the customer's expectations and prove to be very satisfying when present-

(3) Usage Scenarios: As requirements are gathered, an overall vision of system functions and features begins to materialize. To accomplish this, developers and users can create a set of scenarios. The scenarios, often called use cases, provide a description of how the system will be used-

(4) Elicitation Work Products: The work products produced, depends on the size of system or product to be built. For most systems, the work product includes:-

(1) A statement of need and feasibility.

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- (i) A bounded statement of scope for the system or product-
- (ii) A list of customers, users and other stakeholders ^{who} ~~that~~ participated in the requirement elicitation-
- (iii) A description of the system's technical environment-
- (iv) Any prototypes developed to better define requirements-