

Requirement Engineering

Requirement Elicitation and Analysis (R.G.A)

Requirement Validation

Requirement Specification

Step 1- Discovery

- 1) Interview
- 2) Observation

Step 2- Classification

- 1) Functional
- 2) Non-functional-
 - Quality attributes

(Ex: availability, maintainability, security)

- Constraints

(Budget, schedule, resource limits)

Find errors and refine it

- Inconsistency
- Ambiguity
- Incompleteness

Step 3- Prioritization- you get most important requirement first

Step 4- Specification –

Write document (now you have list of prioritize requirements)

Write in natural Language

Template based (Structured)

Write requirements with a template

Ex- SRS

Graphical Notation

Use diagrams or pictures

Ex- Use case, Activity, User stories

Mathematical models

Requirements reviews

Prototyping

Test –case generation