

Empirical Estimation Technique

Empirical Estimation Techniques are based on the data taken from previous projects and some based on guesses and assumption.

There are many Empirical Estimation Techniques but most popular are

- Expert Judgement Technique:-
- Delphi Cost estimation



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• Expert Judgement Technique

→ An expert makes an educated guess of the problem size after analyzing the problem thoroughly.

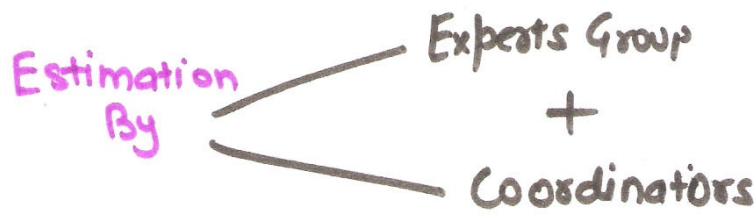
→ Expert estimates the cost of different components i.e. modules and submodules of the system.

Disadvantage

- Human error
- Considering Not all factors and aspects of the project
- Individual bias
- More chance of failure.

Estimation by group of experts minimizes factors such as individual oversight, lack of familiarity with a particular aspect of a project, personal bias, and the desire to win contract through overly optimistic estimates.

• Delphi Cost Estimation:-



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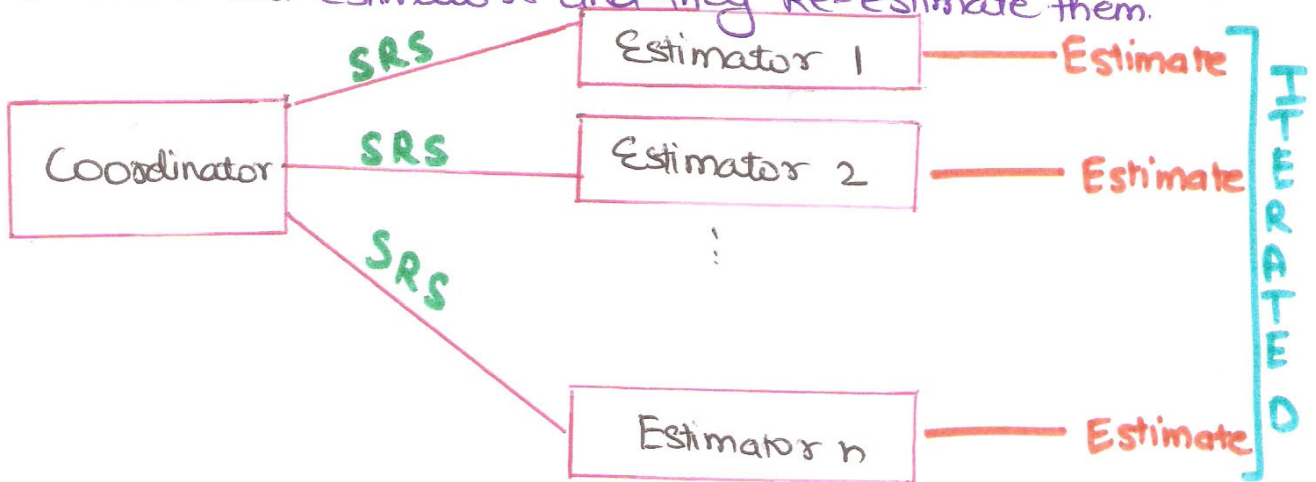
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Role of Members:

Coordinators provide a copy of Software Requirement Specification (SRS) document and a form of Recording his Cost estimate to each estimator

Estimators completes their individual estimates anonymously and submit to the coordinator with mentioning, if any, unusual characteristic of product which has influenced his estimation.

The Coordinator prepare and distributes the Summary of the responses to all estimators and they Re-estimate them.



This Process is ITERATED for Several Rounds.

No Discussion is allowed among the estimators during the entire Estimation process. because then may be many estimators get easily influenced by the rationale of

an estimator who may be more experienced or senior

After the completion of several iterations of estimations, the coordinator takes the responsibility of compiling the results and preparing the final estimates.

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