Project Metrics

The processes which comes under the Software Development Project needs to be measured in order to get assured the well progress of Software development.

Software Metrics provide measures for various aspects of Seftware process and Software product.

There are vacuous types of Metrics like

- a) process Metrics
- b) Project Metrics
- c) Product Metrics
- d) Organizational Metrics



Project Metrics

These are metrics that pertain to project audity. They are used to quartify defects, cost, Schedule, productivity and estimation of various project resources and deliverables.

1) Schedule Variance

Any difference between the scheduled Rollbleting Gargen activity

and the actual Completion of an activity and the actual Completion is known as schedule variance

Schedule Variance = ((Actual calender days - planned calender days) + Start Variance) / Planned Calender day X100

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2) Effort Variance : EV

Difference between the planned outlined efforts and the efforts required to actually undertake the task is called Effort Variance.

EV = (Actual Effort - Planned Effort)/ Planned Effort × 100

3) Size Variance:

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Difference between the estimated size of the project and the actual Size of the project (Normally in KLOC by FP)

Size Variance = (Actual Size - Estimated Size) / Estimated x 100

4) Requirement Stability Index:

Provides Visibility to the magnitude and impact of Requirements Changes.

RSI = 1-((No. of changed + No. of deleted + No. of added) /
Total No. of Initial Requirements) x 100

5) Productivity (Project):

It is a measure of output from a related process for a unit

Project Productivity = Actual Project Size / Actual effort expended in the Computer Science Lectures By E.R. Deepak Garg

- 6) productivity (for Test case preparation):
 - = Actual no. of Test cases / Actual Effort expended in Test case preparation.
- 7) Productivity (For Test Case Execution):

 = Actual Mo. of Test Cases / Actual effort expended in Testing.
- 8) Productivity (Defect Detection):

 = Actual No. of defects (Review + Testing) | Actual Effort Spent on (Review + Testing)
- 9) Productivity (defect fixation): A
 = Actual no. of defect fixed / actual effort spent on
 defect fixation.
- 10) Schedule Variance for a phase:

The deviation between planned and actual Schedules for the

- For a phase + Startvarionce For a phase) / (Planned Calender days days For a phase) x loo
- 11) Effort Variance for a place!
 - = (Actual effort for a phase planned effort for a phase)/



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