

Unit-5

Software Metrics

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January 2018

- Process metrics
- Project metrics

- Process metrics provide a set of process indicators that lead to long-term software process improvement.

Metrics examples

- 1 Measures of errors uncovered before release of the software
- 2 Defects delivered to and reported by end users
- 3 Work products delivered (productivity)
- 4 Defects reported for major software functions
- 5 Errors found during technical reviews
- 6 Defect rates by practitioner
- 7 Errors found during development

- Project metrics enable a software project manager to
 - ① Assess the status of an ongoing project
 - ② Track potential risks
 - ③ Uncover problem areas before they go “critical”.
 - ④ Adjust work flow or tasks
 - ⑤ Evaluate the project teams ability to control quality of software work products.

Metrics example

- Effort and time estimates
- Effort and calendar time expended
- Design quality

- List of process metrics
- List of project metrics

- How the process metrics help to software process ?
- How the product metrics improve the productivity ?
- List a few process and product metrics.
- What is the difference between process and product metrics?

- [1] RogerS. Pressman.
"Software Engineering a Practitiner's Approach"" .
Seventh Edition, McGraw Hill Higher Education, 2010.