Software Testing Metrics

Measurement: Quantifying the quality of an Application

Metric: It is the combination of measurements

Some important testing metrics:

1)Schedule variance=(Actual time taken-planed time)/planed time*100

2)Effort variance=(Actual effort-Planned Effort)/Planned effort * 100

3)Test Case coverage =(Total Test Cases - Requirements that cannot mapped to test cases)/Total Test cases * 100

4)Customer Satisfaction= number of complaints/Period of time

5)Test Case effectiveness = The extent to which test cases are able to find defect.

6) Time to find a defect = The effort required to find a defect

7) Defect Severity = business impact= effect on the end user

8)Test Coverage = To which test case covers the products complete functionality.

9)Defect Severity index = An index representing the average of the severity of the defect.

10)Time to Solve a Defect = Effort Required to resolve the a defect

11)No Of Defect = The Total number of defects found in time

12)Defects/KLOC = The number of defects per 1000 lines of code

13)Defect severity = The severity level of a defect indicates the potential business impact for the end user. (business impact = effect on the end user)

14) Time to find the defect= The effort required to find a defect.

15)Time to solve a defect =Effort required to resolve a defect (diagnosis and correction)

16)Test coverage =Defined as the extent to which testing covers the product's complete functionality.

17) Test case effectiveness = The extent to which test cases are able to find defects.

18) Defect Age=Fixed date-Reported date

19)Defect Density=Number of defects in the module.

20) Defect cost= Cost to analyze the defect + Cost to fix it+ Cost of failures already incurred due to it.

21) Bug clearance Ratio =The ratio between valid & Invalid bugs

22) DRE (Defect Removal Efficiency)=A / A+B
A- Defects found by testing team (Fixed Defects)
B- Defects found by customers (Missed Defects)