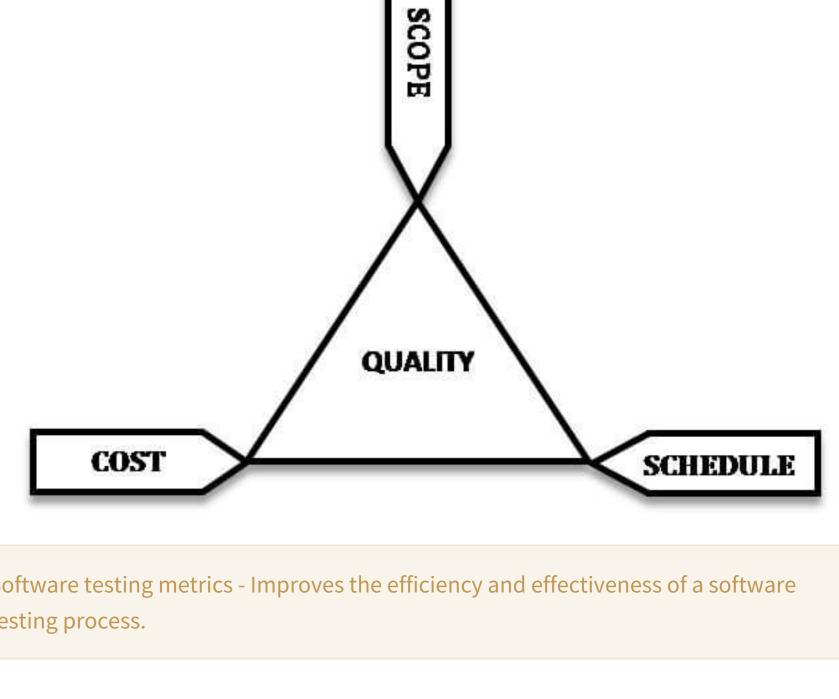
Software Testing Metrics: What is, Types & Example

Home

Software Testing Metrics are the quantitative measures used to estimate the progress, quality, productivity and health of the software testing process. The goal of software testing metrics is to improve the efficiency and effectiveness in the software testing process and to help make better decisions for further testing process by providing reliable data about the testing

weekly mileage of a car compared to its ideal mileage recommended by the manufacturer.

process possesses a given attribute. The ideal example to understand metrics would be a





• How to calculate Test Metric

• Test Metrics Glossary

• Why Test Metrics are Important?

• Types of Test Metrics

- "We cannot improve what we cannot measure" and Test Metrics helps us to do exactly the same.
- Read more about its Importance of Test Metrics

Types of Test Metrics

• Evidence of the claim or prediction

• Take decision for next phase of activities

• Understand the type of improvement required

• Take decision or process or technology change

• Process Metrics: It can be used to improve the process efficiency of the SDLC (

Project

Metrics

Software Development Life Cycle)

• Fix the target audience for the metric preparation Define the goal for metrics

• **Product Metrics:** It deals with the quality of the software product

Manual Test Metrics In Software Engineering, Manual test metrics are classified into two classes

Manual Test

Metrics

Base metrics is the raw data collected by Test Analyst during the test case development and

Base Metrics

• Calculated Metrics

execution (# of test cases executed, # of test cases). While calculated metrics are derived from the data collected in base metrics. Calculated metrics is usually followed by

the test manager for test reporting purpose (% Complete, % Test Coverage).

 Test case execution productivity metrics Test case preparation productivity metrics Defect metrics • Defects by priority Defects by severity • Defect slippage ratio

Steps during each stage

• Identification of the Metrics

Capture and verify the data

conclusion

• Calculating the metrics value using the

• Develop the report with an effective

• The actual test execution per day will be

The actual test cases executed per day

• The Test Case execution falls below the

reason and suggest the improvement

goal set, we need to investigate the

captured by the test manager at the end

and respective representative • Take feedback from stakeholder

• Distribute the report to the stakeholder

• Define the identified QA Metrics

- Explain the need for metric to stakeholder and testing team Educate the testing team about the data points to need to be captured for processing the metric
- **How to calculate Test Metric Sr#** Steps to test metrics **Example** Identify the key software testing processes to be measured Testing progress tracking process

Example of Test Metric To understand how to calculate the test metrics, we will see an example of a percentage

of test cases written) X 100

Determination of the information

Effective calculation, management,

and interpretation of the defined

Identify the areas of improvement

depending on the interpretation of

to be followed, a frequency of

tracking and the person

responsible

metrics

test case executed.

testing)

Planned Start Date) X 100

executed) X 100

executed) X 100

executed) X 100

Reported) X 100

Prev

YOU MIGHT LIKE:

Defect/Bug Life Cycle in

What is Defect Life Cycle?

Defect Life Cycle or Bug Life

Software Testing

Defects Reported) X 100

defined metrics

• Requirement Creep = (Total number of requirements added/No of initial requirements)X100 • Schedule Variance = (Actual efforts – estimated efforts) / Estimated Efforts) X 100

• Cost of finding a defect in testing = (Total effort spent on testing/ defects found in

• Schedule slippage = (Actual end date – Estimated end date) / (Planned End Date –

• Passed Test Cases Percentage = (Number of Passed Tests/Total number of tests

• Failed Test Cases Percentage = (Number of Failed Tests/Total number of tests

• Accepted Defects Percentage = (Defects Accepted as Valid by Dev Team /Total

• Critical Defects Percentage = (Critical Defects / Total Defects Reported) X 100

• **Defects Deferred Percentage** = (Defects deferred for future releases /Total Defects

• Fixed Defects Percentage = (Defects Fixed/Defects Reported) X 100

• Blocked Test Cases Percentage = (Number of Blocked Tests/Total number of tests

bugfixes/Number of bugs) • Number of tests run per time period = Number of tests run/Total time • Test design efficiency = Number of tests designed /Total time

• Average time for a development team to repair defects = (Total time taken for

Software Testing as Replay and a Career Verify **Path**

This guide will take you

through the In's and outs of

software testing. If you plan

Salary, Growth)

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VuGen(Virtual User

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What is Static Testing?

Static Testing is a type of

software testing in which

software application is...



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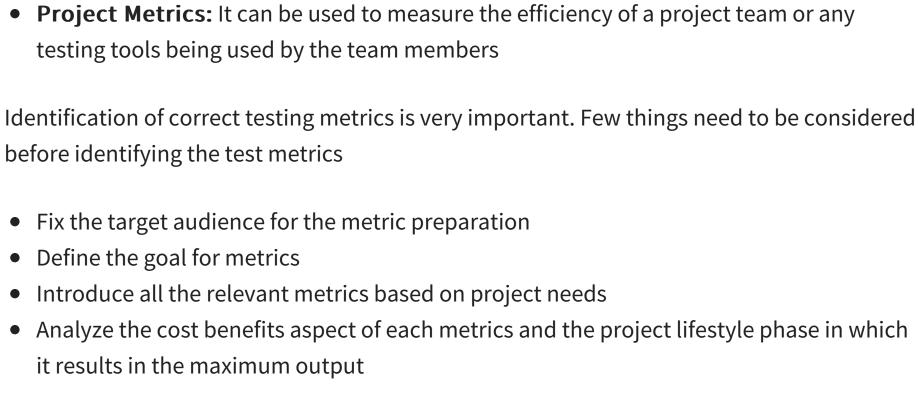
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Software testing metrics - Improves the efficiency and effectiveness of a software testing process. Software testing metrics or software test measurement is the quantitative indication of extent, capacity, dimension, amount or size of some attribute of a process or product. **FEATURED VIDEOS** Linux Oytorials

Manual Test Metrics • Test Metrics Life Cycle • Example of Test Metric Why Test Metrics are Important?

Product **Process** Metrics Metrics



Calculated Metrics **Base Metrics**

RETAIL DESIGN Depending on the project or business model some of the important metrics are

Test Metrics Life Cycle

Analysis

• Communicate

Evaluation

Report

1

2

4

5

Different stages of Metrics life cycle

- data captured
- In this Step, the tester uses the data as a baseline to define the metrics • The number of test cases planned to be executed per day

of the day

measures

Test Metrics Glossary • **Rework Effort Ratio** = (Actual rework efforts spent in that phase/ total actual efforts spent in that phase) X 100

To obtain the execution status of the test cases in percentage, we use the formula.

Percentage test cases executed= (No of test cases executed/ Total no

Likewise, you can calculate for other parameters like **test cases not executed, test**

cases passed, test cases failed, test cases blocked, etc.

• Test review efficiency = Number of tests reviewed /Total time • Bug find rote or Number of defects per test hour = Total number of defects/Total number of test hours

Report a Bug

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Example for software test measurement: Total number of defects In this tutorial, you will learn-• What is Software Testing Metric?

Software Testing Metrics

process. A Metric defines in quantitative terms the degree to which a system, system component, or

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