

We are

Globant Testing Metrics





Why do we need Test Metrics?

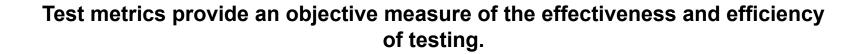
- Metrics let us know where we are and prioritize tasks.
- Testing Metrics is a powerful risk management tool.
- It's never too late to start recording key information on your project.
- This data can be used to improve future work, estimates and quality level.





Benefits of having good Metrics

- Metrics let us predict long term direction and scope.
- Provides a basis for estimation and facilitates planning.
- Provides a means for Control / Status Reporting.
- Identifies risks areas that require more testing.
- Provides meters to flag actions for faster, more informed decision making.
- Quickly identifies and helps resolve potential problems.
- Allows define the action plan to solve the issues







Key Factors to bear in mind

- Collect only the data that you will actually need/use to make informed decisions.
- Do not base decisions solely on data that is variable and can be manipulated.
- Metrics should be decided on the basis of their importance to stakeholders rather than ease of data collection.
- Metrics that are not interested to the stakeholders should be avoided.





The process of setting up metrics involves:

- 1.Identifying the metric
- 2. Identify data required for the metric
- 3. Communicating to stakeholders
- 4. Capturing and verifying the data
- 5. Analyzing and processing data
- 6.Reporting



Let's go a bit deeper on each step, so that you can see what is this all about.





Step 1: identify the right metrics

The right metrics can be identified only after:

- Thinking about what you want to measure and why.
- Analyzing the value/benefit of each metric.
- Identifying the audience.
- Identifying the goals you are trying to achieve.







Step 2: Identify data required for the metric

There are two kinds of metrics:

1. Base Metrics: Metrics for which data can be captured directly.



Derived Metrics: Derived from base metrics.

% T. Cov = 50%





After identifying suitable metrics, data required must be analyzed by:

- Identifying the source of data for each base metric.
- Avoid ambiguous data.
- Defining a common template for capturing all base metrics.
- Obtaining feedback from the team which captures the data.







Step 3: Communication

To ensure better results and commitment, metrics planning must involve all stakeholders:

- Communicate the need for metrics to all affected teams.
- Obtain feedback from stakeholders.
- Communicate expectations to stakeholders how often the data needs to be collected, how often the reports will be generated.





Step 4: Capture and Verify the Data:

- Ensure all the capturing mechanism is set up.
- Communicate and give proper guidelines to the team on the data that is required and why.
- Identify the sources of inaccurate data for each base metric and take corrective steps.







Step 5: Analyze and Process the data:

- Verify whether the data filled is accurate and up to date.
- Define the template in which the derived data must be captured.
- Calculate derived metrics based on base metrics.
- Verify whether the metrics are conveying the correct information.







Step 6: Reporting Metrics:

- Reports should contain a summary.
- Reporting should be in a clearly understandable format, preferably graphs and charts with guidelines to understand the report.
- Reports should clearly point out all the issues or highlights.
- Reports should be presented in such a way that metrics are compared against benchmarks and trends shown.



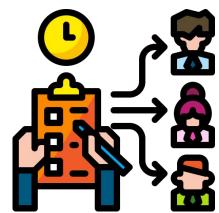




Metric Tips

To avoid the common pitfalls in test metrics the following aspects need to be considered:

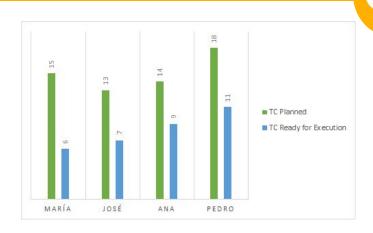
- 1.Management commitment.
- 2. Measuring too much, too soon.
- 3. Measuring too little, too late.
- 4. Wrong metrics.
- 5. Vague metrics definition.
- 6. Collecting data that is not used.
- 7.Lack of communication.
- 8. Share the results.





Test cases definition phase

- 1. Number of test cases planned Vs Ready for execution.
- 1. Total time spent on definition Vs Estimated time.

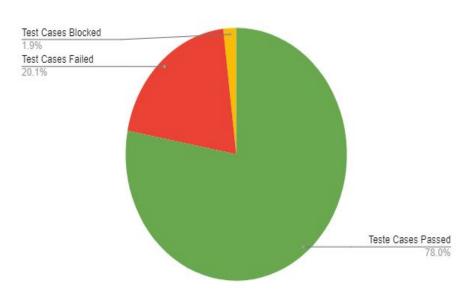






Test Execution and Progress:

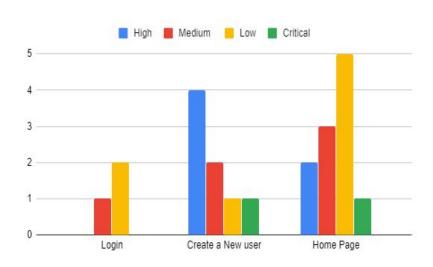
- 1. TCs executed Vs TCs planned.
- Time spent on execution Vs Planned.
- TCs Passed, Failed and Blocked.
- 4. TCs passed by functional area.





Test Product Metrics:

- Bugs created and closed per cycle.
- Bugs closed Vs bugs Reopened.
- 3. Bugs distribution by severity per cycle.
- 4. Bugs distribution by severity by functional area.
- 5. Bugs created by test cases executed.
- 6. Bugs created by status per cycle.





Testing Quality and effectiveness Metrics:

- 1. Bugs not detected by the team but the customer at the UAT.
- Bugs reported by Testing team / Bugs reported by UAT team + Bugs reported by the Client on Production environment * 100 (severity Level)
- 3. Bugs not detected by functional area / requirement.
- 4. Defect Capture Rate.

