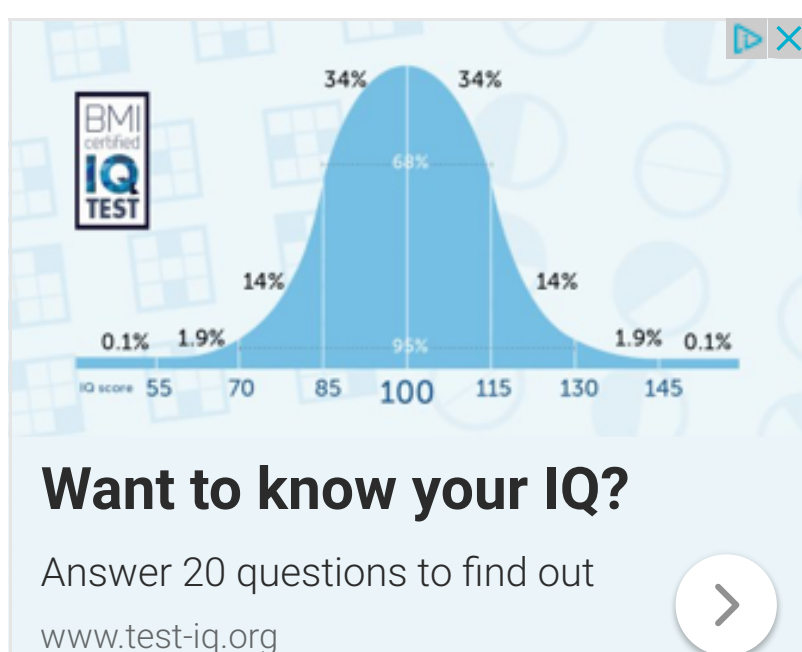


What is Test Maturity Model (TMM) in Software Testing?



Testing Maturity Model in Software Testing

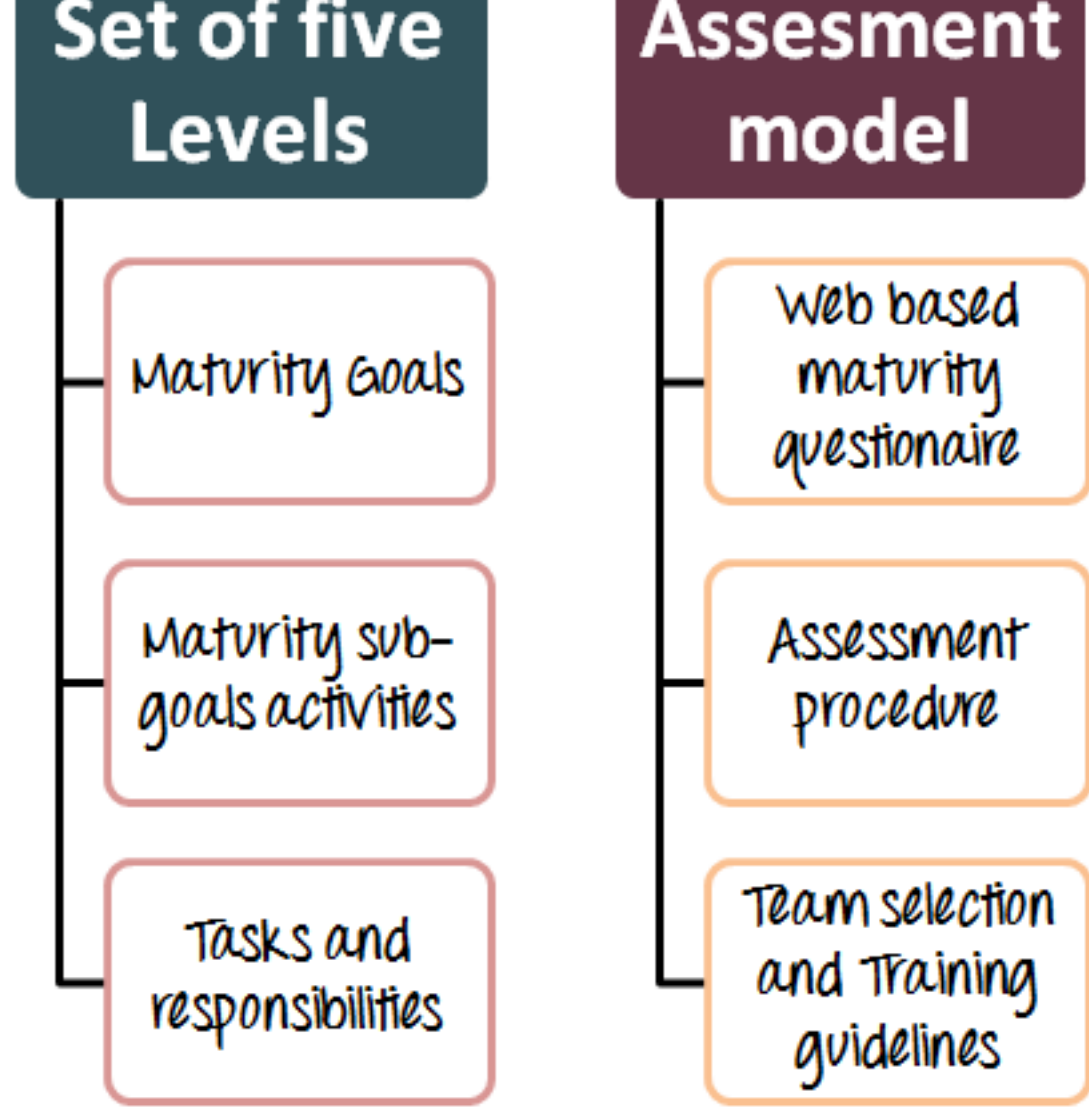
Testing Maturity Model (TMM) in Software Testing is a framework for evaluating the maturity of software testing processes. The purpose of using testing maturity model is identifying maturity and providing targets to improve the software testing process to achieve progress. It can be complemented with any process

improvement model or can be used as a stand alone model.

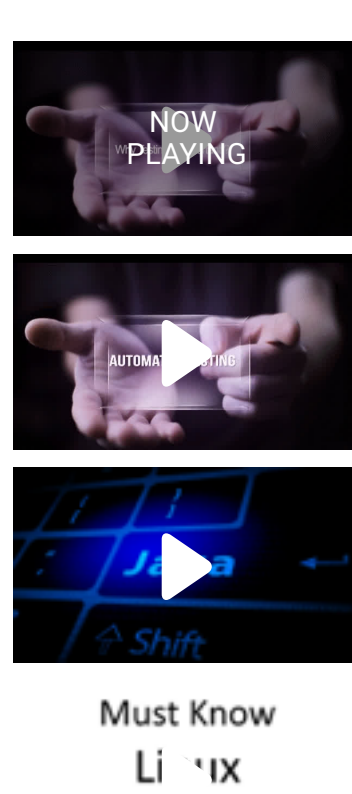
The Test Maturity Model (TMM) is based on the Capability Maturity Model (CMM) and it was first developed by the Illinois Institute of Technology. It is a detailed model for test process improvement.

TMM model has major two components

1. A set of 5 levels that define testing capability
2. An Assessment Model



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Different Levels of Maturity Model

The five levels of the TMM helps the organization to determine the maturity of its process and to identify the next improvement steps that are essential to achieving a higher level of test maturity.


TMM Levels	Goals	An objective of TMM levels
Level 1: Initial	Software should run successfully	<ul style="list-style-type: none">At this level, no process areas are identifiedAn objective of testing is to ensure that software is working fineThis level lacks resources, tools, and trained staffNo Quality Assurance checks before software delivery
Level 2: Defined	Develop testing and debugging goals and policies	<ul style="list-style-type: none">This level distinguish testing from debugging & they are considered distinct activitiesTesting phase comes after codingA primary goal of testing is to show software meets specificationBasic testing methods and techniques are in place
Level 3: Integrated	Integration of testing into the software lifecycle	<ul style="list-style-type: none">Testing gets integrated into an entire life cycleBased on requirements test objectives are definedTest organization existsTesting recognized as a professional activity
Level 4: Management and Measurement	Establish a test measurement program	<ul style="list-style-type: none">Testing is a measured and quantified processReview at all development phases are recognized as testsFor reuse and Regression Testing, test cases are gathered and recorded in a test databaseDefects are logged and given severity levels
Level 5: Optimized	Test process optimization	<ul style="list-style-type: none">Testing is managed and definedTesting effectiveness and costs can be monitoredTesting can be fine-tuned and continuously improvedQuality control and Defect prevention are practicedProcess reuse is practicedTest related metrics also have tool supportTools provide support for Test Case design and defect collection

Difference between CMM & TMM

CMM	TMM
<ul style="list-style-type: none">CMM or Capability Maturity Model is for judging the maturity of the software processes of an organization	<ul style="list-style-type: none">TMM or Test Maturity Model describes the process of testing and is related to monitoring the quality of software testing model

Conclusion:

Software maintenance is expensive and time-consuming when defects are identified after project delivery. Consequently, while detecting defects is important, it is also important that software makes minimum errors during the development phase. A standard testing process like TMM can help to achieve this. TMM (Testing Maturity Model) that is specially designed to address testing can help the organization to improve the maturity of their testing practices.



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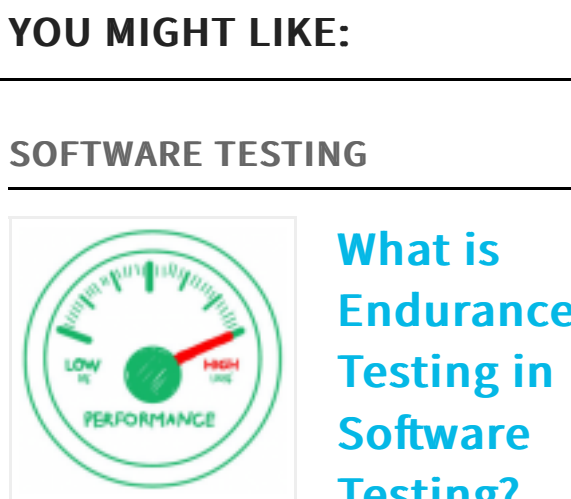
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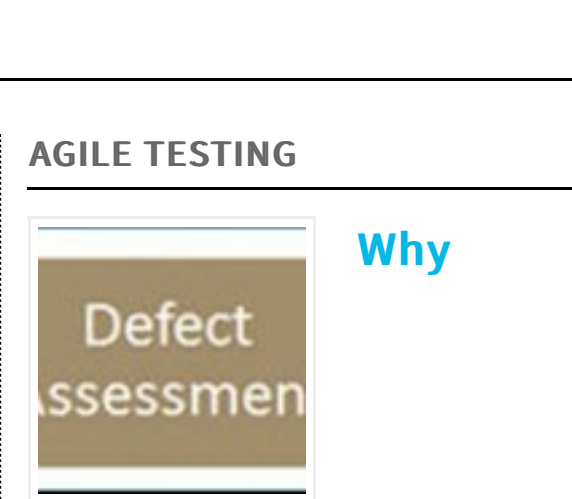


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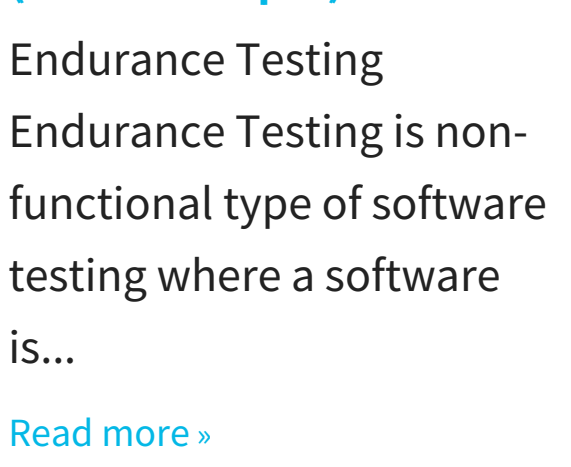


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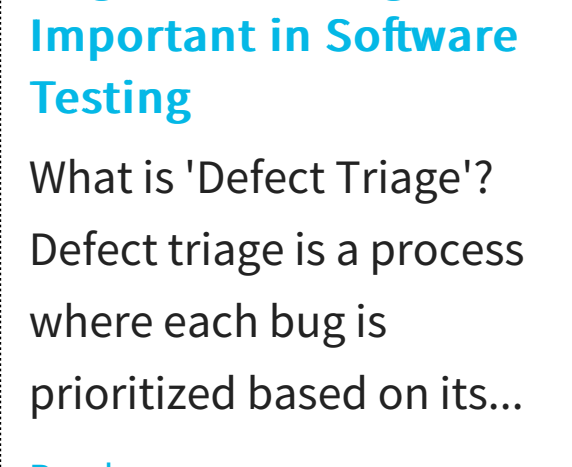


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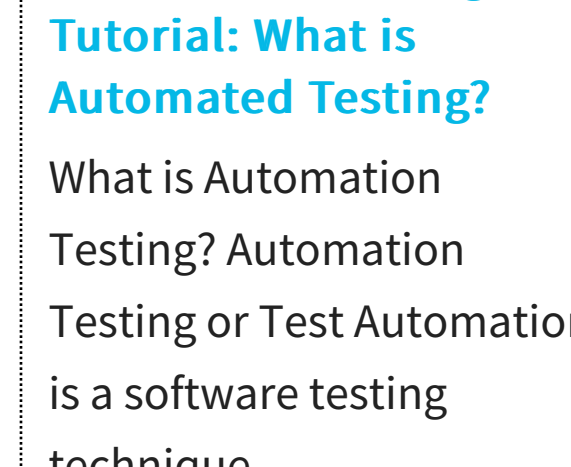


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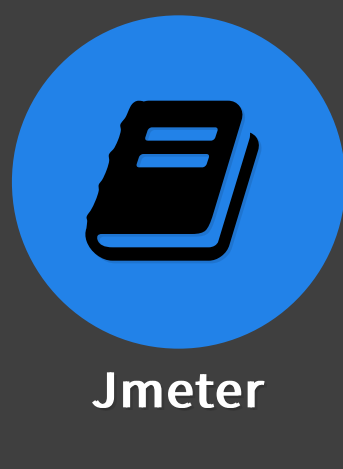
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