What is Static Testing? What is a Testing Review?

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White Box Testing Static Testing **Cyclomatic Testing** System Testing

identify the errors and solve the errors. It also helps finding errors that may not be found by Dynamic Testing.

What is Static Testing?

Static Testing is a software testing

technique which is used to check defects in

software application without executing the

code. Static testing is done to avoid errors at

an early stage of development as it is easier to

• Manual examinations: Manual examinations include analysis of code done manually,

The two main types of static testing techniques are

• Automated analysis using tools: Automated analysis are basically static analysis which is done using tools.

Its counterpart is Dynamic Testing which checks an application when the code is run. Refer

to this tutorial for a detailed difference between static and dynamic testing.

- In this tutorial, you will learn-
- **FEATURED VIDEOS**

also known as **REVIEWS**.



• Tools used for Static Testing

• What is Testing Review?

• Why Static Testing?

- How Static Testing is Performed • Static Testing Techniques

• What is Tested in Static Testing

get to know about the progress of the project and sometimes the diversity of thoughts may result in excellent suggestions. Documents are directly examined by people and discrepancies are sorted out.

Walkthroughs

 Informal reviews Technical review Inspections

What is Static Testing? What is a Review: Softw...

Reviews can further be classified into four parts:

- Static TUTORIAL Ver no YouTube During the Review process four types of participants that take part in testing are:

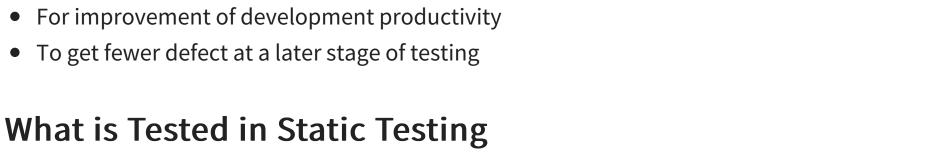
are met.

- Types of defects which can be easier to find during static testing are:
- Deviations from standards Non-maintainable code
- Missing requirements • Inconsistent interface specifications

Usually, the defect discovered during static testing are due to security vulnerabilities, undeclared variables, boundary violations, syntax violations, inconsistent interface, etc.

- & RETAIL DESIGN
- Static testing is performed due to the following reasons

• Early defect detection and correction Reduced development timescales



In Static Testing, following things are tested

Use Cases

 Unit Test Cases Business Requirements Document (BRD)

Prototype Prototype Specification Document • DB Fields Dictionary Spreadsheet

System/Functional Requirements

• Traceability Matrix Document User Manual/Training Guides/Documentation

Test Plan Strategy Document/Test Cases

- Automation/Performance Test Scripts
- To perform Static Testing, it is done in the following ways, • Carry out the inspection process to completely inspect the design of the application
- The various activities for performing Static Testing are: 1. Use Cases Requirements Validation: It validates that all the end-user actions are
- etc. 4. **Prototype/Screen Mockup Validation**: This stage includes validation of requirements and use cases.

5. Field Dictionary Validation: Every field in the UI is defined well enough to create field

level validation test cases. Fields are check for min/max length, list values, error

identified, as well as any input and output associated with them. The more detailed and

thorough the use cases are, the more accurate and comprehensive the test cases can be.

2. Functional Requirements Validation: It ensures that the Functional Requirements

identify all necessary elements. It also looks at the database functionality, interface

• Use a checklist for each document under review to ensure all reviews are covered

- Walkthroughs Technical Reviews Inspections
 - Static Testing

Control Flow **Tools used for Static Testing** Various tools used for Static Testing are as follow, Checkstyle Soot SourceMeter **Tips for Successful Static Testing Process** Some useful tips to perform a static testing process in Software Engineering. • Focus only on things that really count • Explicitly plan and track review activities. A software walkthrough and inspection are generally composite into peer's reviews • Train participants with Examples Resolve people issues Keep process formal as the project culture • Continuous Improvement – Process and Tools • By removing the major delays in test execution, testing cost and time can be reduced **Summary:**

Report a Bug Prev

defects, non-maintainable code.

- Agile/Scrum Quality Assurance is **Methodology** popularly known as QA **Agile Automation Testing** Testing, is defined as an... Agile Automation Testing in
- **Software Engineer**

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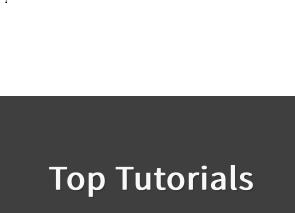
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SOFTWARE TESTING

(Sample Template)

Test Strategy A Test

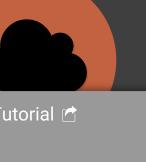
Artifacts

Java

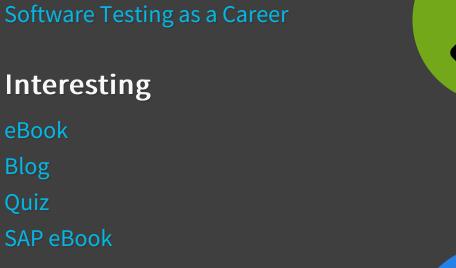
Testing



Hacking



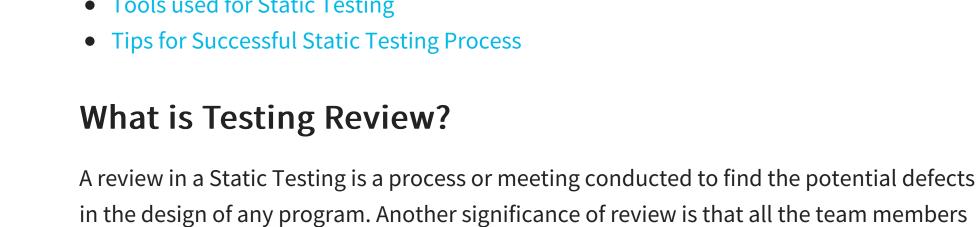
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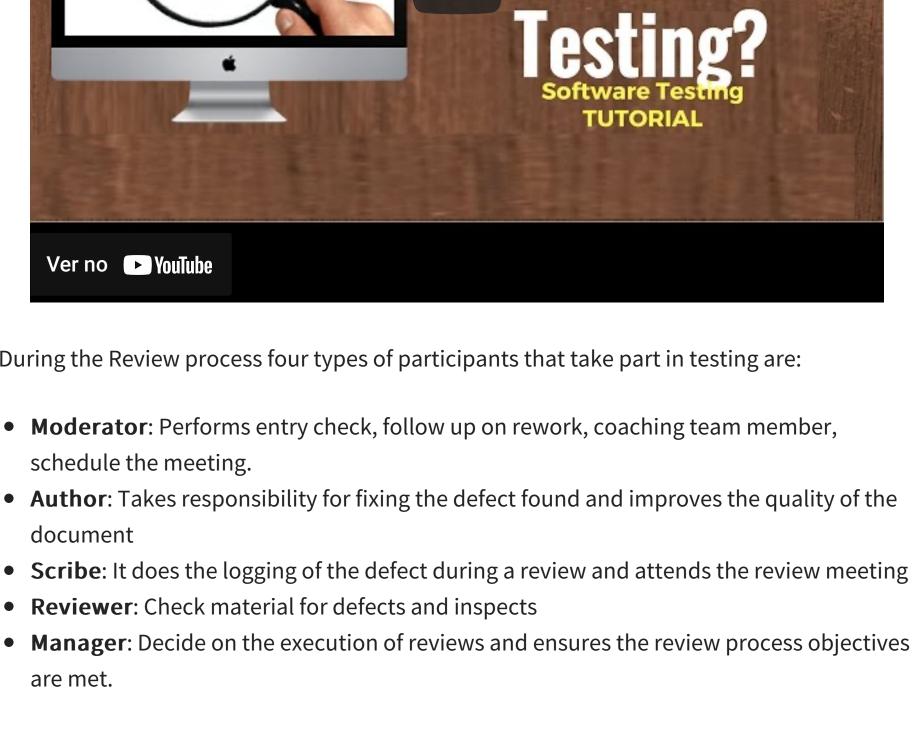








Ver mais t... What is



• Design defects

- Why Static Testing?
- Reduced testing cost and time
- Test Data
- **How Static Testing is Performed**
 - completely

3. **Architecture Review**: All business level process like server locations, network diagrams, protocol definitions, load balancing, database accessibility, test equipment,

messages, etc.

• Static Analysis

Data Flow

Control Flow

Static Testing Techniques

listings, and hardware, software, and network requirements.

- Informal Reviews
 - Informal Reviews

Walkthroughs

Technical Reviews

Inspection

Static Analysis

Data Flow



Reviews not only help to find defects but also understand missing requirements, design

Assurance

Vs Quality

What's the

Control:

- **YOU MIGHT LIKE: SOFTWARE TESTING SOFTWARE TESTING** Quality
- is a methodology for Read more » software development is an building complex approach of using... software...
- How to create **Test Strategy Document**

Functional Testing Vs

What's the Difference?

Non-Functional Testing:

SOFTWARE TESTING

What is Quality Assurance?

Strategy is a plan for What is Functional Testing? defining an approach to the Functional testing is a type Software Testing Life... of testing which verifies that Read more » each... Read more »

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