

Software Engineering

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Thursday, December 30, 2010

FORMAL TECHNICAL REVIEWS

A formal technical review is a software quality assurance activity performed by software engineers (and others). The objectives of the FTR are

- (1) to uncover errors in function, logic, or implementation for any representation of the software;
- (2) to verify that the software under review meets its requirements;
- (3) to ensure that the software has been represented according to predefined standards; (4) to achieve software that is developed in a uniform manner;
- And
- (5) to make projects more manageable.

In addition, the FTR serves as a training ground, enabling junior engineers to observe different approaches to software analysis, design, and implementation. The FTR also serves to promote backup and continuity because a number of people become familiar with parts of the software that they may not have otherwise seen.

The FTR is actually a class of reviews that includes walkthroughs, inspections, round-robin reviews and other small group technical assessments of software. Each FTR is conducted as a meeting and will be successful only if it is properly planned, controlled, and attended. In the sections that follow, guidelines similar to those for a walkthrough are presented as a representative formal technical review.

Posted by bipin singh at 2:37 AM



16 COMMENTS:

Anonymous May 17, 2013 at 2:55 AM

great explanation

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Cathy Sungoh November 3, 2013 at 7:09 AM

Can you please help me what are the types of FTR...??

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Unknown November 28, 2015 at 1:43 PM

Type of FTR

Formal reviews

In a formal review, the author of the work product or one of the reviewers familiar with the work product introduces it to the rest of the reviewers. The flow of the review is driven by the presentation and issues raised by the reviewers.

Walkthroughs

Walkthroughs are usually used to examine source code as opposed to design and requirements documents. The participants do a step-by-step, line-by-line simulation of the code. The author of the code is usually present to answer participants' questions.

Inspections

In an inspection, a list of criteria the software must satisfy determines the flow of the review. While walkthroughs and formal reviews are generally biased toward error detection, inspections are often used to establish additional properties such as portability and adherence to standards. A reviewer may be supplied with a checklist of items, or he or she may only be informed of the desired property. Inspections are also used to check for particular errors that have been prevalent in the past.

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PRADEEP VISHWAKARMA June 10, 2014 at 7:12 AM

nice it.s very helpfull.

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Bibil Mathew Chacko April 18, 2015 at 8:55 PM

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Test Case Design Techniques

The test case design techniques are broadly grouped into two categories: Black box techniques, White box techniques and other techniques tha...

The Spiral Model

The spiral model, originally proposed by Boehm, is an evolutionary software process model that couples the iterative nature of prototyping ...

The Incremental Model

The incremental model combines elements of the linear sequential model (applied repetitively) with the iterative philosophy of prototyping. ...

The WINWIN Spiral Model

The spiral model suggests a framework activity that addresses customer communication. The objective of this activity is to elicit pro...

Prototype Model

Often, a customer defines a set of general objectives for software but does not identify detailed input, processing, or output requirements...

Rapid application development (RAD)

Rapid application development (RAD) is an incremental software development process model that emphasizes an extremely short development cycl...

Walkthrough & Inspection

Review is "A process or meeting during which artifacts of software product are examined by project stockholders, user representatives,...

What is the difference between severity and priority?

Severity Value : S1 : Catastrophic Blocking : The use case cannot be completed with any level of workaround. Problem causes data loss, corr...



nice explanation

[Reply](#)**Bibil Mathew Chacko** April 18, 2015 at 9:02 PM

nice explanation

[Reply](#)**John Popper** December 7, 2015 at 6:33 PM

The FTR is a class of reviews that includes walkthroughs, inspections, round-robin reviews and other small group technical assessments of software. Each FTR is conducted as a meeting and will be successful only if it is properly planned, controlled, and attended. It is one of the secrets to develop the [best quality control inspection software](#).

[Reply](#)**zohaib muhammad** December 10, 2015 at 9:28 PM

Some people argue that an FTR should assess programming style as well as correctness. Is this a good idea? Why?

[Reply](#)**Anonymous** September 29, 2016 at 1:15 AM

its good but more information needed

[Reply](#)**Chetluri Nagurvali** September 29, 2016 at 2:25 AM

Yes chaitanya. You are exactly right.Thanks for ur valuable information.Keep Going (y)

[Reply](#)**VIKAS** September 29, 2016 at 2:31 AM

THANKS YOU SIR.....!

[Reply](#)**Anonymous** September 29, 2016 at 2:34 AM

luggjkbv

[Reply](#)**Unknown** January 10, 2017 at 8:51 AM

what are the guidelines for conducting FTR?

[Reply](#)**unknown** February 16, 2017 at 9:16 PM

where ftr is used in v model?

[Reply](#)**seema** March 6, 2017 at 3:28 AM

A very interesting article. The insights are really helpful and informative. Thanks for posting.

[CMMI Consulting](#)[Reply](#)**Hamza Farooqui** May 11, 2017 at 6:03 AM

What are the stages in FTR?

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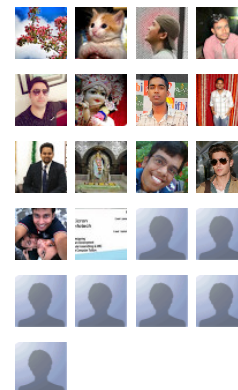
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 On what basis is the Acceptance plan prepared?
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