

Testing Basic Interview Questions

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Difference Between Verification And Validation With Example?

Verification and Validation example is also given just below to this table.

Verification	Validation
1. Verification is a static practice of verifying documents, design, code and program.	1. Validation is a dynamic mechanism of validating and testing the actual product.
2. It does not involve executing the code.	2. It always involves executing the code.
3. It is human based checking of documents and files.	3. It is computer based execution of program.
4. Verification uses methods like inspections, reviews, walkthroughs, and Desk-checking etc.	4. Validation uses methods like black box (functional) testing, gray box testing, and white box (structural) testing etc.
5. Verification is to check whether the software conforms to specifications.	5. Validation is to check whether software meets the customer expectations and requirements.
6. It can catch errors that validation cannot catch. It is low level exercise.	6. It can catch errors that verification cannot catch. It is High Level Exercise.
7. Target is requirements specification, application and software architecture, high level, complete design, and database design etc.	7. Target is actual product-a unit, a module, a bent of integrated modules, and effective final product.
8. Verification is done by QA team to ensure that the software is as per the specifications in the SRS document.	8. Validation is carried out with the involvement of testing team.
9. It generally comes first-done before validation.	9. It generally follows after verification .

Example of verification and validation are explained below:-

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Suppose we have the specifications related to the project than by checking that specifications without executing to see whether the specifications are up to the mark or not is what we have done in verification.

Similarly Validation of the software is done to make sure that the software always meets the requirements of the customer by executing the specifications of the

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- Verification vs Validation
- What is Bug
- What is Functional Testing
- What is Regression Testing
- What is Sanity Testing

project and product.

Note that the customer and end users are concerned in validation of the software.

It is also crucial to differentiate between end users, and customers. Considering example, if you are developing a library monitoring system, the librarian is the client and the person who issue the books, collect fines etc. are comes under the category of the end users.

Techniques or Methods of Verification and Validation

Methods of Verification

1. Walkthrough
2. Inspection
3. Review

Methods of Validation

1. Testing
2. End Users

Conclusion:

- 1) Verification and Validation both are necessary and complementary.
- 2) Both of them provides its own sets of Error Filters.
- 3) Each of them has its own way of detect out the errors left in the software.

Lots of people use verification and validation interchangeably but both have different meanings.

Verification process describes whether the outputs are according to inputs or not, and

Validation process describes whether the software is accepted by the user or not.

Note:

If you remain have any problem regarding **Difference between Verification and Validation** than you can definitely discuss with me in comments section below.

You might also like:

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Labels: [Verification and Validation](#), [Verification and Validation Example.](#), [Verification vs Validation](#)

62 comments:

Anonymous November 25, 2012 at 11:57 PM

It gives clear idea thank u

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Anonymous January 5, 2013 at 1:22 PM

Excellent explanation... thanks a lot....)

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Anonymous January 7, 2013 at 1:39 AM

good one...!! It really Helps...!!! Thanks..!

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Nilkamal Shah January 21, 2013 at 7:25 PM

At what stage of software engineering verification and validation takes place??

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PRAVEEN SN January 21, 2014 at 12:32 AM

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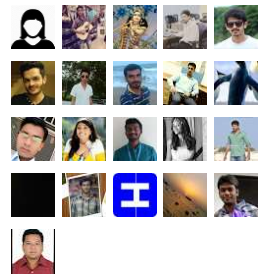
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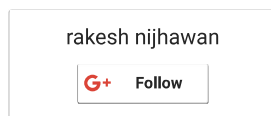


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Hi Nilkamal,
I think verification is done at initial stages
And validation at end of s/w launch to customer
In b/w finding n fixing bugs it is not termed as validated

[Reply](#)Anonymous [February 18, 2013 at 5:13 PM](#)

overall article is good, but the sentence "Verification process describes whether the outputs are according to inputs or not" is weak

[Reply](#)[Replies](#)Yogesh Bendke [December 8, 2015 at 12:51 PM](#)

yes i m also agree with you...

premi

January 12, 2016 at 3:49 PM

nice

[Reply](#)sandip [March 9, 2013 at 11:22 PM](#)

It is also crucial to differentiate between end users and client/customer. [more information](#)

[Reply](#)Niraj Chet [March 18, 2013 at 3:49 PM](#)

e dir moi 1 exemple de verification e validation

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Anonymous

[April 14, 2013 at 2:54 PM](#)

very useful information!!

[Reply](#)Anandakumar A [May 24, 2013 at 6:51 AM](#)

super

[Reply](#)Anandakumar A [May 24, 2013 at 6:52 AM](#)

very useful and superb

[Reply](#)Nitesh Sharma [June 9, 2013 at 11:14 AM](#)

very useful...

[Reply](#)

Anonymous

[July 21, 2013 at 5:14 PM](#)

Very useful... Thanks a lot :)

[Reply](#)

Anonymous

[July 21, 2013 at 5:17 PM](#)

Could you please describe what 1. Walkthrough

2. Inspection

3. Review are... Thanks a lot for the useful info

[Reply](#)

Anonymous

[December 20, 2013 at 8:09 AM](#)

Clearly described with example... :)

[Reply](#)



Nagaraj K T January 3, 2014 at 12:24 PM

Got clear idea on these topics.

thank you..

[Reply](#)



JobsOnClick January 9, 2014 at 11:48 AM

The information which you have provided is very good. It is very useful who is looking for [basic interview questions](#).

[Reply](#)



Rajesh Racha February 12, 2014 at 12:35 PM

now I got the clarification.

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Ashish Minhas February 17, 2014 at 12:49 PM

can u relate verification and validation with STLC(software testing life cycle)..

[Reply](#)



Anonymous February 28, 2014 at 7:34 AM

can you please share some example? like considering some project specifications & what might be the verification/validation for that project.

[Reply](#)



Surendranatha Reddy Chappidi March 13, 2014 at 5:53 PM

Thank you so much for such a great article

[Reply](#)



Sangita Das March 15, 2014 at 3:52 PM

excellent

[Reply](#)



Anonymous March 18, 2014 at 12:21 PM

Good one.

[Reply](#)



Anonymous March 18, 2014 at 12:24 PM

This site helps a lot to learn.thank you.

[Reply](#)



Anonymous April 4, 2014 at 10:24 PM

THNAKS GOOD INFO

[Reply](#)



Anonymous April 6, 2014 at 4:52 PM

Thanks :)

[Reply](#)



HR April 20, 2014 at 7:59 AM

thanks

[Reply](#)



Mukta May 11, 2014 at 5:48 PM

Is it right to say that Testing begins after coding in SDLC? or Please tell me when does Testing starts in testing life cycle?

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Anonymous May 13, 2014 at 4:51 PM

Super Pots.. !!!

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Mubashir Sami May 23, 2014 at 4:02 PM

Good Explanation.

[Reply](#)



Nusrat Ali May 23, 2014 at 4:08 PM

Sir how we can do verification and validation of core web engineering ? any published paper or help ?

[Reply](#)

Anonymous May 25, 2014 at 11:03 PM

I am preparing for the interview. I found this perfect site. Excellent information. Verification is "Are we building the home right?", Validation is "Are we building the right home?"

Thanks.

[Reply](#)



Rajkumar June 6, 2014 at 11:25 AM

Its very clear, thank u

[Reply](#)

chitra June 6, 2014 at 4:31 PM

thanks a ton.....

[Reply](#)



Tapan Dubey June 9, 2014 at 5:18 PM

Rakesh has Explained very well.

Just want to conclude it ,Verification is a Static testing and Validation is a Dynamic testing.

[Reply](#)

Anonymous June 17, 2014 at 5:06 AM

4.Verification uses methods like inspections, reviews, walkthroughs, and Desk-checking etc.

4. Validation uses methods like black box (functional) testing, gray box testing, and white box (structural) testing etc.

Incorrect! Verification uses methods like Test, Analysis, Demonstration & Inspection and uses black box (functional testing), gray and white box testing. "Testing" is synonymous with "Verification". Validation involves running Monte Carlos and statistical analysis to validate that simulation performance with the actual fielded system that the simulation is supposed to represent.

[Reply](#)

kalaimathy June 18, 2014 at 7:27 PM

thank u so much for this information

[Reply](#)



priyanka singh July 8, 2014 at 3:01 PM

superb .. very nice!!!

[Reply](#)

Anonymous July 16, 2014 at 9:33 PM

Is combination of Verification and Validation is called testing?

[Reply](#)

Anonymous August 13, 2014 at 3:10 PM

Verification and Validation both are independent type of testing. Obviously, If we look both of these activities as a whole, we can also call it testing.

[Reply](#)



sanam arzoo October 4, 2014 at 1:20 PM

I really like examining and also following ones write-up when i locate them incredibly beneficial and also fascinating. That write-up is usually just as beneficial along with fascinating. Thanks for facts you already been putting on doing your web site such an fascinating.[Interview Preparation](#)

[Reply](#)

Anonymous October 8, 2014 at 9:52 PM

Nice Explanation... Very Useful.

[Reply](#)



Andree Symond January 5, 2015 at 11:43 PM

Verification and Validation are the activities performed to improve the quality and reliability of the system and assure the product satisfies the customer needs.
Verification assures the product of each development phase meets their respective requirements.
Validation assures the final product meets the client requirements.

[software validation](#)

[Reply](#)

Anonymous April 22, 2015 at 4:02 PM

Good one.

[Reply](#)

Anonymous April 28, 2015 at 5:58 PM

Thank you very much it will helpful to us

[Reply](#)



Courtney Buble May 15, 2015 at 5:30 PM

Hello,
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nilupuli watawala May 16, 2015 at 12:22 PM

thnks for the details.good work.

[Reply](#)

Anonymous May 21, 2015 at 10:38 PM

Very good!!!!!!!!!!!!!!

[Reply](#)



Rayhan Kabir June 14, 2015 at 11:39 PM

Thanks for sharing such a nice information.

Thanks again
[report writing help](#)

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Unknown October 15, 2015 at 6:25 PM

Very informative..... thanks for providing.....

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Shaik Basha October 15, 2015 at 6:26 PM

Very informative.... thanks for providing.

[Reply](#)

Shaik Basha October 15, 2015 at 6:27 PM

Good one.

[Reply](#)**Shoaib Majeed** [October 20, 2015 at 9:28 PM](#)

why we are saying SRS as black box document???

[Reply](#)**SUJITH** [December 11, 2015 at 5:41 AM](#)

Very helpful.....

[Reply](#)**lovepreet Arora** [January 25, 2016 at 4:45 PM](#)

Thanks

[Reply](#)**madhusa dulanjana** [March 7, 2016 at 3:13 PM](#)

what systems need more v&V?

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Orakzai [May 28, 2016 at 11:15 AM](#)

Informative :)

[Reply](#)**Harshit Chauhan** [June 5, 2016 at 3:47 PM](#)

thx..it helped a lot :)

[Reply](#)**Unknown** [July 14, 2016 at 10:07 AM](#)

its superb...thanks

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Anonymous [December 1, 2016 at 2:36 PM](#)

thanks

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