the Difference?

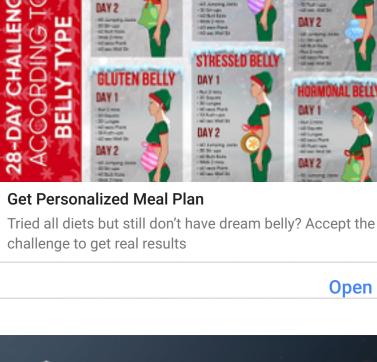
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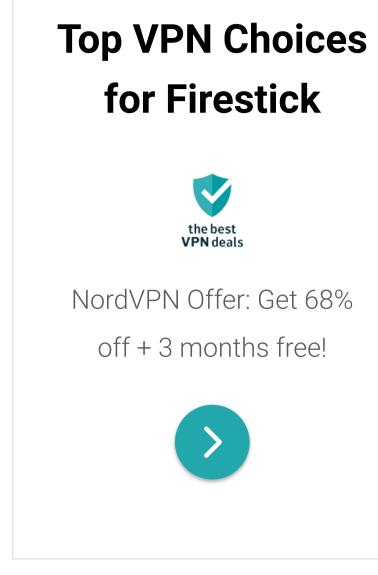
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Automation Testing Vs. Manual Testing: What's

Manual testing is testing of the software where tests are executed manually by a QA Analyst. It is performed to discover bugs in software under development. In Manual testing, the tester checks all the

software. In this process, the software testers

execute the test cases and generate the test

What is Manual Testing?

essential features of the given application or

It is a classical method of all testing types and helps find bugs in software systems. It is generally conducted by an experienced tester to accomplish the software testing process. What is Automation Testing?

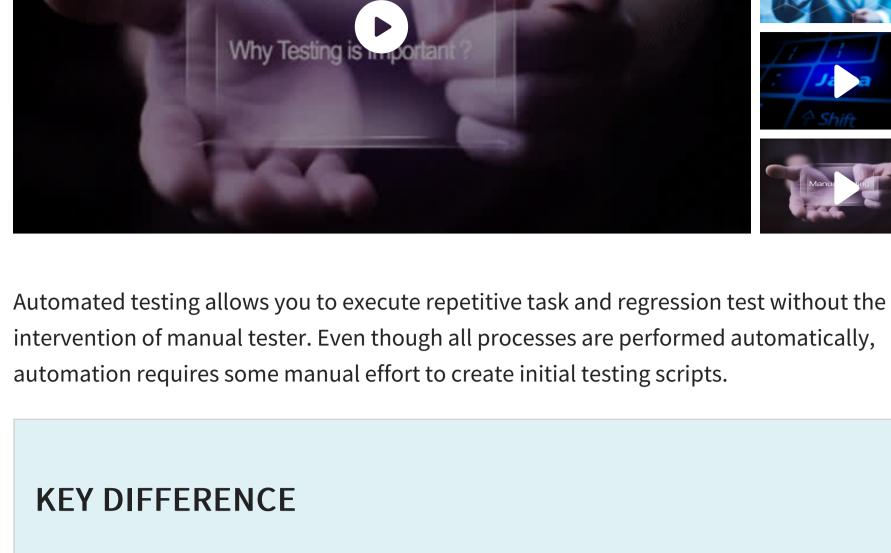
Testers use appropriate automation tools to develop the test scripts and validate the software. The goal is to complete test execution in a less amount of time.

reports without the help of any automation software testing tools.

Automated testing entirely relies on the pre-scripted test which runs automatically to compare actual result with the expected results. This helps the tester to determine whether or not an application performs as expected. **FEATURED VIDEOS**

In Automated Software Testing, testers write code/test scripts to automate test execution.

What is Software Testing Why Testing is Important



Testing is done with the use of script, code and automation tools (computer) by a tester. • Manual Testing process is not accurate because of the possibilities of human errors whereas the Automation process is reliable because it is code and script based.

Testing is not possible without programming knowledge.

fast.

- random Testing.
- **Automated Testing Manual Testing**

Difference Between Manual Testing and Automation

Manual Testing

Manual testing is

lower compared to

long run.

comparatively lower. ROI is

Automation testing in the

Manual testing is not as

not readily/ readily

The manual testing method

allows human observation,

offer user-friendly system.

Manual testing needs have

a more straightforward test

Repetitive Manual Test

Manual testing proves

useful when the test case

only needs to run once or

Manual Test cases provide

Manual Unit Tests do not

drive design into the coding

Manual Testing defeats the

automated build principle

Manual Testing is suitable

for Exploratory, Usability

no training value

process

of DevOps

Execution can get boring

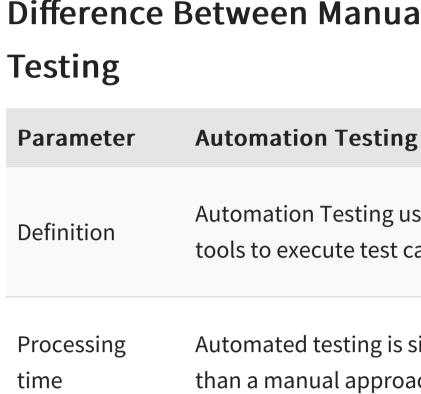
execution setup

and error-prone.

twice.

which may be useful to

available.



Initial

Human

observation

Ideal approach

Documentation

Test Design

Devops

cases

investment

The initial investment in the automated testing is higher. Though the ROI is better in the long run.

Automated testing is a reliable method,

Stress Testing, Spike Testing, etc. have to be tested by an automation tool compulsorily.

Automation test requires less complex Set up test execution set up. Done by tools. Its accurate and never Engagement gets bored!

Data Drive, Keyword, Hybrid to Framework accelerate the automation process.

> Automated Testing is suited for Load Testing or highly repeatable functional test cases.

part of DevOps Cycle

ure your catch with a modern and user

Get fast and accurate visual feedback

ndly system.

process

• Less reliable testing method because it's conducted by a human. Therefore, it is always prone to mistakes & errors.

• Automated testing helps you to find more bugs compare to a human tester

• As most of the part of the testing process is automated, you can have a speedy and

• Automation process can be recorded. This allows you to reuse and execute the same

• Automated testing is conducted using software tools, so it works without tiring and

• Human judgment and intuition always benefit the manual element

time-consuming. While you could test manually on the fly.

check even the smallest unit

the testing project.

Pros of automated testing:

kind of testing operations

efficient process

- Automation testing tool is not yet foolproof. Every automation tool has their limitations which reduces the scope of automation. • Debugging the test script is another major issue in the automated testing. Test maintenance is costly.
- **Assurance** HP **Vs Quality** .oadrunner **Control:** mance Testing too What's the

Quality

- popularly known as QA **Testing? Accessibility** Testing, is defined as an... Testing is defined as a type Read more » of Software Testing...
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What is Accessibility

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and check test execution results Automated testing does not involve human consideration. So it can never give assurance of user-friendliness and positive customer experience. Performance Tests like Load Testing,

Automation testing is useful when frequently executing the same set of test

Automated Tests acts as a document provides training value especially for automated unit test cases. A new

developer can look into a unit test cases

and understand the code base quickly.

Automated Unit Tests enforce/drive Test

Verification Testing and are an integral

Driven Development Design.

Automated Tests help in Build

Cons of Manual Testing:

fatigue unlike humans in manual testing • It can easily increase productivity because it provides fast & accurate testing result • Automated testing support various applications • Testing coverage can be increased because of automation testing tool never forget to

Report a Bug Next > Prev

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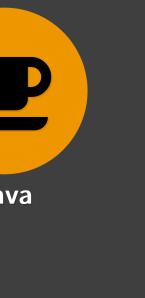
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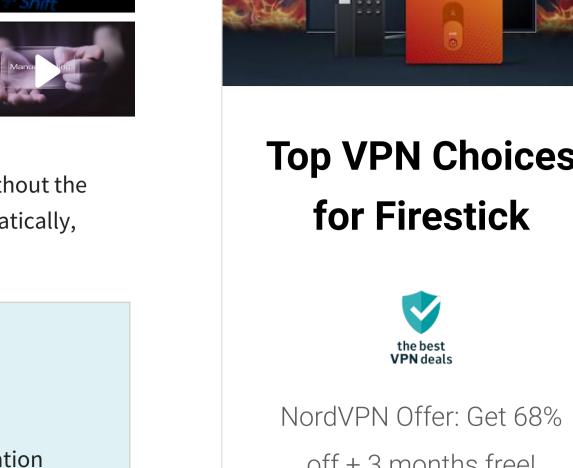


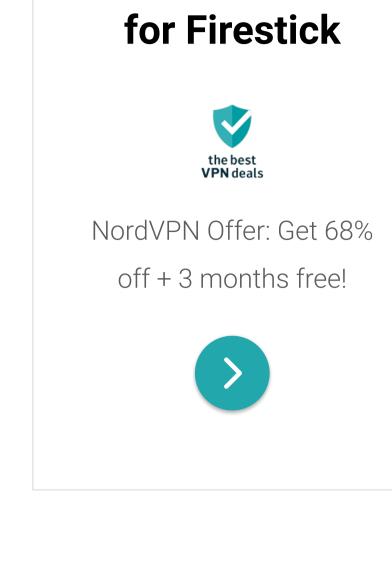


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Manual Testing is done manually by QA analyst (Human) whereas Automation • Manual Testing is a time-consuming process whereas Automation Testing is very • Manual Testing is possible without programming knowledge whereas Automation Manual Testing allows random Testing whereas Automation Testing doesn't allow

In manual testing, test **Automation Testing uses automation** cases are executed by a tools to execute test cases. human tester and software. Manual testing is time-Automated testing is significantly faster consuming and takes up than a manual approach. human resources. **Exploratory** Exploratory testing is Automation does not allow random possible in Manual Testing Testing testing The initial investment in the

accurate because of the Reliability as it is performed by tools and scripts. possibility of the human There is no testing Fatigue. errors. Small changes like change For even a trivial change in the UI of the in id, class, etc. of a button **UI** Change AUT, Automated Test Scripts need to be wouldn't thwart execution modified to work as expected of a manual tester. Investment is required for testing tools as Investment is needed for Investment well as automation engineers human resources. Not cost effective for low volume Not cost effective for high Cost-effective regression volume regression. Manual Tests are usually With automation testing, all stakeholders recorded in an Excel or Test Report can login into the automation system Word, and test results are Visibility

Performance Testing is not Performance Testing feasible manually Manual tests can be executed in parallel but This testing can be executed on different Parallel operating platforms in parallel and would need to increase Execution reduce test execution time. your human resource which is expensive You can Batch multiple Test Scripts for Manual tests cannot be **Batch testing** nightly execution. batched. Programming knowledge is a must in No need for programming Programming knowledge automation testing. in Manual Testing.

Executing the Build Verification Testing (BVT) is Build Automation testing is useful for Build Verification very difficult and time-Verification Testing (BVT). consuming in manual Testing testing. Manual Testing has a higher Automated Tests have zero risks of **Deadlines** risk of missing out the premissing out a pre-decided test. decided test deadline. Manual Testing does not use frameworks but may Automation testing uses frameworks like use guidelines, checklists, stringent processes to draft certain test cases.

Regression Testing, Performance Testing, and Adhoc Testing. It When to Use? should also be used where the AUT changes frequently. Manual Testing Pros and Cons **Pros of Manual Testing:**

• It is less expensive as you don't need to spend your budget for the automation tools and

• While testing a small change, an automation test would require coding which could be

OPEN

• The manual testing process can't be recorded, so it is not possible to reuse the manual test. • In this testing method, certain tasks are difficult to perform manually which may require an additional time of the software testing phase. **Automated Testing Pros and Cons**

Cons of Automated Testing: • Without human element, it's difficult to get insight into visual aspects of your UI like colors, font, sizes, contrast or button sizes.

• The tools to run automation testing can be expensive, which may increase the cost of

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