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Manual Testing Tutorial

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Introduction

Manual testing is one of the most basic testing methods since it can identify software flaws that are both obvious and obscure. We explain the fundamental concepts in this manual testing tutorial to help you kickstart your career in the software testing field. If you are new to testing, explore various learning options with our [software testing courses](#).

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Introduction to Manual Testing

Manual testing is the process of testing software by running test cases by hand without the use of an automated tool. We cover the following in this manual testing tutorial:

- Overview of Manual Testing
- Software Build Process
- Types of Manual Testing
- Methods for Carrying Out Manual Testing
- Advantages of Manual Testing

Overview of Manual Testing

Every freshly produced program must undergo

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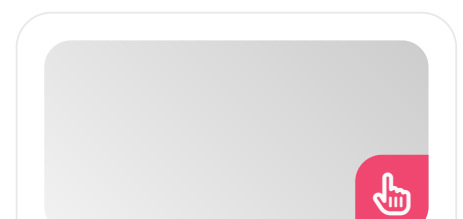


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manual testing before automated testing. Although it takes a lot of time and work, this testing ensures that the program is free of bugs. Understanding manual testing methodologies is necessary for manual testing; familiarity with automated testing tools is not.

One of the principles of software testing is that “100% automation is not possible,” which makes manual testing necessary. Learn what automation testing is with our [Selenium course in Chennai](#).

Demand for Manual Testing

Whenever a new program enters the market and causes problems for end customers, has a bug, is unreliable, or otherwise presents a challenge.

- To avoid these kinds of issues, we must conduct a single testing cycle to ensure that the application is stable and free of bugs. Only then can we provide the client with a high-quality product, since a bug-free program will make it easier for the end user to use.
- When a test engineer conducts manual testing, they may test the application from the viewpoint of the end-user and gain a deeper understanding of the product, which aids in the creation of accurate test cases and prompt application feedback.

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Software Build Process

The two distinct teams responsible for development and testing will receive the requirements after they are gathered.

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- The responsible developer will begin writing the code as soon as they receive the requirements.
- The developer may now finish the code and store it in the Control Version tool while the test engineer comprehends the need and writes the necessary paperwork.
- The build team manages the code modifications that affect the user interface.
- With the help of a build tool, this build team will take the code and begin to compile and compress it.
- The test server will be configured with this specific build. Then, the test engineer will use the test URL to gain access to this test server and begin testing the application.
- The responsible developer will be notified if the test engineer discovers any bugs.
- After that, the developer will replicate the issue on the test server, address it, and put the code in the Control version tool once more.
- The tool will then install the newly updated file and delete the outdated one, a process that will continue until the stable build is obtained.
- The customer will receive the stable build once it has been delivered to us.

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Types of Manual Testing

When it comes to manual testing, there are several approaches. Every procedure is applied following its testing requirements. Below are some examples of manual testing types:

- **White Box Testing:** Developers perform white box testing, going over each line of code before sending it to the test engineer. White box testing gets its name from the fact that the developer can see the code as it's being tested.
- **Black Box Testing:** Test engineers perform black box testing, wherein they assess an



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application's or software's functionality based on the needs of the client or customer. This type of testing is called "black-box" testing since the code is hidden during execution.

- **Gray Box Testing:** White box and black box testing are combined to create gray box testing. Someone proficient in both testing and coding could complete it. Gray-box testing is used when a single person conducts both blackbox and whitebox testing for the application.

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Methods for Carrying Out Manual Testing

- To choose testing areas, the tester first reviews all software-related papers.
- To ensure that all client requirements are covered, testers review requirement documents.
- The test case is created by the tester by the requirement document.
- Every test case is manually carried out utilizing both white box and black box testing techniques.
- The testing team notifies the development team if any bugs are found.
- After fixing defects, the development team gives the program to the testing team so that it can be retested.

Popular Manual Testing Tools

We have many technologies on the market that we may use for manual testing, including Jira, Bugzilla, Mantis, Zap, NUnit, Tessy, LoadRunner, Citrus, SonarQube, and other testing kinds like unit, integration, security, performance, and bug tracking. There are commercial and open-source tools available.

LoadRunner

The most popular tool for performance testing is this one. Performance testing for the many different processes, techniques, and application environments is the primary usage of LoadRunner. Running the LoadRunner program has the primary goal of rapidly categorizing the most frequent causes of performance problems.

Features of LoadRunner

- The n-number of applications in the LoadRunner tool shortens the time needed to comprehend and describe the reports.
- With the help of the LoadRunner tool, we may obtain comprehensive performance test findings.
- In addition to providing the operational tool for tracking deployments, it will lower the cost of distributed load testing.

JIRA

JIRA is an open-source issue-tracking tool that is most frequently used. It is employed in project management, problem tracking, and bug tracking. With the help of this application, we can quickly monitor any form of software-related fault or defect that the test engineers find.

Features of JIRA

- It is a tool that saves time.
- Jira is used to monitor bugs and defects.
- It serves to define the tasks related to documentation.
- Jira is a very helpful tool for monitoring how well our documentation is being improved.

JMeter

An open-source program called JMeter is used to evaluate the performance of dynamic web applications as well as static and dynamic resources.

To load the functional test behavior and gauge the

program's performance, it is entirely built into the Java application. It makes it easier for users or developers to create new applications using the source code. Enroll in our [**JMeter training in Chennai**](#) to know more.

Features of JMeter

- High performance of both static and dynamic resources and dynamic web applications
- Fully integrated into the Java application, making it easy to load and assess program performance.
- Using the source code to construct new applications is simple.

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Advantages of Manual Testing

- When utilizing the Black Box method, programming skills are not required.
- It is employed for testing GUI designs that change dynamically.
- To find usability and user interface problems, testers engage with software as if they were actual users.
- It guarantees that there are no bugs in the software at all.
- It is economical.
- Simple to pick up for novice testers.

Conclusion

The test engineer must act and think like an end user when conducting manual testing. We hope this manual testing tutorial will help you start your learning. Hone your skills for a promising career by enrolling in our [**manual testing training**](#) in Chennai.

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