

# Types of Manual Testing

## Acceptance Testing

User Acceptance Testing (UAT) is performed by the end-user, to confirm that the software meets the agreed requirements. It takes place during the final phase before releasing the product to market. UAT is an example of functional testing and types of acceptance testing include Alpha and Beta.

## Black Box Testing

Also known as behavioral testing, this method aims to analyze an application's functionality from the end-user's perspective. The internal code structure is not visible during testing, so testers are only aware of the inputs and expected outputs of the software.

## Integration Testing

Integration Testing is the process of testing an application with two or more integrating components. It is performed once the individual components have been unit-tested and aims to identify problems with the interfaces and the interactions between them. The two main methods are the Bottom-Up Approach and Top-Down Approach.

## System Testing

System Testing means testing the system as a whole, once all its components have been unit-tested and integrated. It checks that the complete application works as intended, by comparing it against the original requirements.

## Unit Testing

This is when the individual units or components of an application's source code are tested, to make sure each function performs as expected. It is usually carried out by developers rather than engineers, as it requires detailed knowledge of the internal program design and code. Also known as module testing or component testing, it simplifies the debugging system and helps to detect and protect against bugs in the future.

## White Box Testing

This is a method of testing the internal structures or workings of an application. It is performed by the developer, who checks the software's internal codes before passing it to a test engineer.

The main focus of White Box Testing is on strengthening security and improving the software's design and usability. A combination of Black Box and White Box testing is known as Gray Box Testing.