

4. Testing

Explain, in 10 sentences or less, how structural testing and functional testing complement each other.

Software testing is the process of verifying that the application meets the user's expectations.

Structural testing is the software testing method where the tester knows the internal structure of the software. This is done by the developers.

Functional testing is the software testing method which is used to test software, but in the way that testers know nothing about the internal workings of the application. The primary goal of functional testing is to determine if the software is working as expected and if it is meeting the user expectations. This is done by test engineers.

Structural testing is important at the beginning of software development because it can catch defects early in the development stage. This method prevents a small problem from becoming a crucial error after integrating the code into the main system.

On the other hand, Functional testing makes sure that all the different software modules work well together after integration.

In simple words, Structural testing is based on the inside workings of an application, while Functional testing involves testing from an end-user type perspective and both are required for an efficient error-free software development.