**TESTING LEVELS:**

**4 Levels of Testing**

There are mainly four **Levels of Testing** in software testing :

1. **Unit Testing**
2. **Integration Testing**
3. **System Testing**
4. **Acceptance Testing**

## Each Testing Level Details

#### **1.Unit testing:**

A [Unit](https://www.guru99.com/unit-testing-guide.html) is a smallest testable portion of system or application which can be compiled, liked, loaded, and executed. **This kind of testing helps to test each module separately.**

The aim is to test each part of the software by separating it. It checks that component are fulfilling functionalities or not. **This kind of testing is performed by developers.**

#### **2.Integration testing**:

[Integration](https://www.guru99.com/integration-testing.html) means combining. For Example, In this testing phase, different software modules are combined and tested as a group to make sure that integrated system is ready for system testing.

Integrating testing checks the data flow from one module to other modules. **This kind of testing is performed by testers.**

#### **3.System Testing:**

[System testing](https://www.guru99.com/system-testing.html) is performed on a complete, integrated system. It allows checking system’s compliance as per the requirements. It tests the overall interaction of components. **It involves load, performance, reliability and security testing.**

System testing most often the final test to verify that the system meets the specification**. It evaluates both functional and non-functional need for the testing.**

#### **4.Acceptance testing:**

[Acceptance testin](https://www.guru99.com/user-acceptance-testing.html)g is a test conducted to find if the requirements of a specification or contract are met as per its delivery. **Acceptance testing is basically done by the user or customer.** However, other stockholders can be involved in this process.

## Conclusion:

* A level of software testing is a process where every unit or component of a software/system is tested.
* The primary goal of system testing is to evaluate the system’s compliance with the specified needs.
* In Software Engineering, four main levels of testing are Unit Testing, Integration Testing, System Testing and Acceptance Testing.