



Unit Test

- Should not require access to any external systems like network, db, etc..
- All external systems are **mocked out**
- Isolate parts of programs and verify **independent parts are working fine**
- **Take time** to build and require maintenance
- An incorrect unit test can let a bug go unnoticed for a long time!!

Integration Test

- Checks if **interaction between multiple components** works as expected
- Is more valuable in case of lot of moving parts
- Hard to find source of errors - so in combination with unit test are helpful
- Requires time and commitment from **multiple system owners**

Performance / Load / Stress Testing

- Simulate a heavy load on a server, network or object to test its strength
- Analyze overall performance under different types of loads
- Also a way to perform functional tests on websites, databases, services etc..