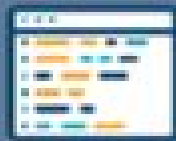


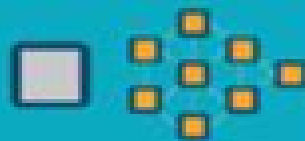
# Types of automated testing

Software testing is not restricted to a single type, and multiple test types can be applied simultaneously or performed in succession.



## REGRESSION TESTING

ensures that new code doesn't break existing code. It is typically repeated after each build.



## A UNIT TEST

checks specific parts of a code base. A successful unit test signals that the code compiled and executed as intended.



## SMOKE TESTS

generally determine whether an application still functions properly after a new build. A passed smoke test provides the go-ahead for more detailed testing.



## API AND INTEGRATION TESTS

validate the interaction of requests and responses for the app's APIs, such as with databases, mainframes and web services.



## USER INTERFACE AND INPUT/OUTPUT TESTS

can check a command-line interface, GUI or button-press sequences. I/O testing basically transforms input data into output data.



## SECURITY TESTS

check authorization behaviors and common attack vectors. Vulnerability testing on the code base checks for known flaws and is usually done via penetration testing.



## PERFORMANCE TESTS

measure an application's KPIs, such as computing load, traffic levels and scalability. They are meant to push an app to its limits.



## ACCEPTANCE TESTS

validate that software meets its criteria and that the project is done.

# How To Do Automation Testing

**Ian Pickup**



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