

## Experiment No. 03

Aim: Write test cases for any one given application.

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Theory :

A test case is a set of actions executed to verify a particular feature or functionality of your software application.

A 'TEST CASE' is a set of conditions or variables under which a tester will determine whether a system under test satisfies requirements or works correctly. The process of developing test cases can also help find problems in the requirements or works correctly design of an application.

Test Case Template:

A test case can have the following elements.

Note, however, that a test management tool is normally used by companies and the format is determined by the tool used.

Test Suite Id	The ID of the test suite to which this test case belongs.
Test case Id	The ID of the Test Case
Test case summary	The summary / objective of the test case.
Related requirement	The ID of the requirement this test case relates / traces to
Prerequisites	Any prerequisites or preconditions that must

	be fulfilled prior to executing the testing.
Test procedure	Step-by-step procedure to execute the test.
Test data	The test data, or links to the test data, that are to be used while conducting the test
Expected Result	The expected result of the test
Actual Result	The actual result of the test; to be filled after executing the test.
Status	Pass or fail. Other statuses can be 'Not executed' if testing is not performed and 'Blocked' if testing is blocked.
Remarks	Any comments on the test case or test execution
Created By	The name of the author of the test case.
Date of creation	The date of creation of the test case.
Executed by	The name of the person who executed the test.
Date of Execution	The date of execution of the test

### Conclusion :

We have configured a simple web application on local host and designed test cases for given application and tested application successfully.

### Test Environment

The environment (Hardware / Software / Network) in which the test was executed.

### Writing good Test Cases.

- As far as possible, write test cases in such a way that you test only one thing at a time. Do not overlap or complicate test cases. Attempt to make your test cases 'atomic'.
- Ensure that all positive and negative scenarios are covered.
- Language:
  - Write in simple and easy to understand language.
  - Use active voice instead of passive voice : Do this, do that.
  - Use exact and consistent names (of forms, fields, etc.).
- Characteristics of a good test case:
  - Accurate : Exacts the purpose
  - Economical : No unnecessary steps or words.
  - Traceable : Capable of being traced to requirements.
  - Repeatable : Can be used to perform the test over and over.
  - Reusable : Can be reused if necessary.

### Conclusion :

We have configured a simple web application on local host and designed test cases for given application and Tested Application Successfully.