Why ?

* To reduce the bugs
* To improve the quality of the program or software
* To achieve the customer satisfaction
* To check the correctness and completeness of the software

Types of Testing:

1. Positive Type – testing the application with the valid inputs(eg: phone number with correct values(10 nos)
2. Negative Type- testing the application with the invalid inputs(eg: phone number with improper values(more than 10 nos or less then 10 ,etc)

Principles:

1. Testing reduces the presence of defects
2. Exhaustive test is not possible
3. Early testing
4. Defect clustering
5. Pesticide paradox
6. Testing is context dependent
7. Absence of error fallacy

Software Testing Terminologies

* Error
* Bugs
* Defects
* Failures

Types of Software testing

* Manual testing
* Automation testing

|  |  |
| --- | --- |
| Manual testing | Automation testing |
| It can be done on all kind of application |  |
| Initial investment low | Initial investment is high |
|  | Accuracy is high |
|  |  |
|  |  |

Test plan:

* Document describing the scope,approach, resource and schedule of intended test activities

Scope:

* Register
* Login and logout ,etc,..

Application

* Combination of hardware and software to perfrom specific tasks.

Testing Environment

* Dev – unit and integration testing
* Qa --- system testing
* Staging --- UAT(User Acceptance Testing)
* Production -- Live

STLC(Software Testing Life Cycle)

1. Requirement analyzing
2. Test plan design
3. Test case design
4. Test case environment

* Develop environment(local host)
* Test environment(dummy link)
* Production environment(product id)

1. Test execution
2. Test log
3. Defect tracking process
4. Test closure

Retesting

Again testing the bug software

Test case parameters

Headers

* Project name
* Scenario
* Test case created by
* Module
* Test cases created date
* Total test cases
* Test case executed
* Test case not executed
* Browser version
* Build version

Column names

* Modele no
* Module name
* Test case id
* Test case
* Prerequisties
* Test data
* Test steps
* Expected results
* Actual output
* Pass/fall/nt executed/suspended
* Severity
* Defect details
* Attachments