* **What is Exploratory Testing?**

Exploratory Testing is the concurrent process where test design ,execution and login happen simultaneously.

* **What is traceability matrix ?**

Traceability matrix is the matrix in which the test condition should be able to trace back to there sources in the test basis.

* **What is Boundary value Testing?**

In boundary value Testing we focus on boundary values, because it is found that most of bugs are found in boundaries.

* **What is Equivalence partitioning Testing?**

In it the aim is to treat groups of inputs as equivalent and to select one representation input to test them all.

* **What is Integration Testing ?**

Integration Testing is the process of testing to expose defects in interface and interactions between various integrated component or systems .In it individual units are combined & tested as a group.

* **What determines the level of risk?**

Determining the level of risk usually involves trying to assess not only the likelihood of an identified risk from actually occurring, but also

the also the potential magnitude the consequences this risk could have on an organization and its stakeholders, should it occur.

* **What is Alpha Testing ?**

Alpha Testing is performed by the developers at the software development level conducted on software application & project in

Virtual Environment with in the organization. It is a form of Acceptance testing.

* **What is Beta Testing ?**

Alpha Testing is performed by the Customers at their own side, conducted on software product in

Real time Environment outside the organization. It is a form of Acceptance testing.

* **What is Component Testing ?**

Component Testing is the process of testing the individual component of the software system to be developed. it is also known as

Module or program testing.

* **What is Function system Testing ?**

A requirement that specifies a function that a system or system component must perform.

* **What is Non-functional Testing ?**

Testing the attribute of a component or system that do not relate to functionality e.g. reliability , efficiency, usability, interoperability,

Maintainability and portability.

* **What is GUI Testing ?**

GUI testing is the process of testing the functionality & system’s GUI of the system under test.GUI testing involves checking the screens

With the control like menu, buttons, icons and all types of bar, menu bar, dialog box & windows etc.

* **What is Adhoc Testing ?**

Adhoc testing is the random testing which is done with the aim to break the system. It is done if the knowledge of the tester in system under

Test is very high.

* **What is Load Testing ?**

It is performed to test the performance of the system/ software under extreme load. it is also known as volume testing Ex: no of concurrent user.

* **What is stress Testing ?**

It is done to test the system behavior under extreme conditions & is carried out till system failure. It is also known as endurance testing.

Ex: Entering data beyond storage.

* **What is white box testing and list the type of white box testing ?**

Testing based on the analysis of the internal structure of component or system is known as white box testing. it is also known as

structure based or Glass based testing. Ex: analyzing the logic.

Types of white box testing

1. Unit Testing
2. Testing for Memory leaks
3. White box penetration testing
4. White box mutation testing.

* **What is black box testing? What are the different black box testing techniques?**

Black box testing is done without knowing the internal structure of the component or system .it is also known as specification

based or functional testing.

Black box testing techniques are

1. Equivalence partitioning.
2. Boundary Value Analysis.
3. Decision Table.
4. State transition testing.
5. Error Guessing.
6. Graph-based Testing Techniques.

* **Mention what are categories of defects?**

1. Data Quality / Database Defects.
2. Critical Functionality Defects.
3. Functionality Defects.
4. Security Defects.
5. User Interface Defects.

* **Mention what big bang testing is?**

It is an integration testing strategy where all components or modules are integrated and tested as a single unit.

* **What is the purpose of exit criteria?**

It is used to determine whether a given test activity has been completed or not. It can be defined for all of the test

Activity right from planning, specification and execution.

* **When should “Regression Testing” be performed?**

Regression testing means testing your software application when it undergoes a code change to ensure that that

new code has not affected other parts of the software.

* **What is 7 key principles? Explain in details?**

1. Testing shows presence of defects.
2. Exhaustive testing is impossible.
3. Early Testing
4. Defect clustering.
5. The Pesticide paradox
6. Testing is context dependent.
7. Absence of Error Fallacy.

* **Difference between QA v/s QC v/s Tester.**

|  |  |  |
| --- | --- | --- |
| **QA** | **QC** | **Tester** |
| Focus on the process & procedure rather  Than actual testing. | Focus on actual testing. | Focus on actual testing. |
| Process oriented activities | Product oriented activities | Product oriented activities |
| Preventive activities | Corrective activities | Preventive activities |
| Subset of STLC | Subset of QA | Subset of QC |
| A managing tool | A corrective tool | A preventive tool |
| Everyone’s responsibility | Testing team responsibility | Testing team responsibility |

* **Difference between Smoke and Sanity .**

|  |  |
| --- | --- |
| **Smoke testing** | **Sanity testing** |
| Smoke testing is performed after receiving software build  to ascertain that the critical functionality of the program is  working fine or not. | After receiving software build with doing minor  changes in the code, sanity testing is done to check  that bugs have been fixed & no further  issues are introduced. |
| Performed by the developer or tester. | Performed by the tester. |
| This is usually documented or scripted. | This is usually not documented or unscripted. |
| It is a subset of regression testing. | It is a subset of acceptance testing. |
| It is exercise on the entire system from end to end. | It is exercise only on the particular component of the system. |
| Smoke testing is like general health check-up. | Smoke testing is like specialized health check-up. |

* **Difference between verification and validation.**

|  |  |
| --- | --- |
| **Verification** | **Validation** |
| Are you building the product right ? | Are you building the right product ? |
| Done by developer. | Done by tester. |
| It involves reviews, inspection, walkthrough. | It involves system testing. |
| It involves both static and dynamic activities. | It involves both only dynamic activities. |
| Concerned with phase containment of errors. | Aim is to make final product error free |

* **Explain types of Performance testing.**

1. Load Testing
2. Stress Testing
3. Endurance Testing
4. Spike Testing
5. Volume Testing
6. Scalability Testing

* **What is Error, Defect, Bug and failure?**

A mistake found in the code is known as error, when the error is found by the tester is known as defect,

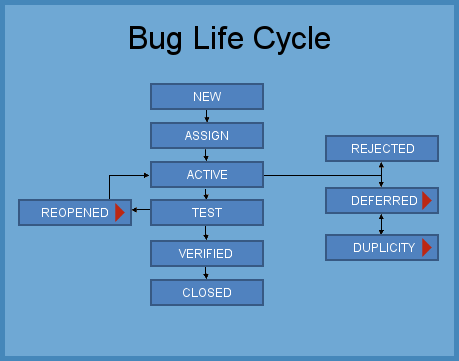
When the defect is accepted by development team it is known as bug, when build does not meet specified

requirement it is known as failure.

* **Difference between Priority and Severity ?**

|  |  |
| --- | --- |
| **Priority** | **Severity** |
| Priority indicates how soon the defect need to be fixed by developer. | Severity is an indication of impact of defect on the software . |
| Priority is associated with timelines/scheduling. | Severity is associated with product quality. |
| Priority is given by Test Lead or project manager. | Severity is given by QA tester. |
| It is driven by business values. | It is driven by functionality. |
| Priority status is established on customer requirements. | Severity status is established on technical aspect of the product. |

* **What is Bug life Cycle?**



* **Explain the difference between Functional testing and Non Functional testing ?**

|  |  |
| --- | --- |
| **Functional testing** | **Non functional testing** |
| Testing based on the analysis of the specification  of functionality of a component or system. | Testing based on the analysis of the specification of functionality of a component or system. |
| Easy to do manual testing. | Tough to do manual testing. |
| It is executed first. | It is executed after manual testing. |
| Business requirement are the input. | Performance parameters like speed, scalability are the input. |
| It describes what the product does. | It describes how good the product works. |

* **To create HLR & Test Case of instagram, facebook only first page and facebook login page.**

[Here](Assignment2.xlsx)

* **What is the difference between STLC(Software Testing life cycle) and SDLC(Software Development life cycle)?**

|  |  |
| --- | --- |
| **STLC(Software Testing Life Cycle)** | **SDLC(Software Development Life Cycle)** |
| STLC is mainly related to software testing. | SDLC is mainly related to software development. |
| It focuses only on testing the software. | Besides development other phases like testing  Is also included. |
| STLC involves only five phases or steps. | SDLC involves only six phases or steps. |
| In STLC , less number of members(testers)  are needed. | In SDLC , more number of members(developers)  are needed. |
| Goal of STLC is to complete successful testing  of software. | Goal of SDLC is to complete successful development  of software. |

* **What is the difference between test Scenario, test cases, and test Script?**

|  |  |  |
| --- | --- | --- |
| **Test Scenario** | **Test Cases** | **Test Script** |
| Test Scenario is any functionality  that can be tested. | Test case is a set of actions  executed to verify particular  features or functionality | Test Script is a set of instructions  to test an app automatically. |
| Derived from test artifacts like  Business requirement specifications  & software Requirement Specifications | Mostly derived from test scenarios | Mostly derived from test cases. |
| Helps test the end to end functionality in  an agile way. | Helps in exhaustive testing of an app. | Helps to test specific things repeatedly. |
| Is more focused on what to test. | Is focused on what to test & how to test. | Is focused on expected result. |
| Take less time and fewer resources to  Create. | Require more resources and time. | Less time for testing but more resources  for scripts creating & updating |

* **Explain what Test Plan is? What is the information that should be covered.**

A document describing the scope, approach, schedule and resource for intended test activities. It covered test planning,

test plan & strategy , test factor , test activity and exit criteria.

* **What is priority?**

Defect priority indicates how soon the defect needs to be fixed by developer, it is set by product manager & its determine

the time frame given to developer to fix the bug.

Example: spelling mistake in website name.

* **What is severity?**

Defect severity is an indication of impact of defect on the software.

Example: after entering the URL the website does not open.

* **Bug categories are….**

1. Data quality/database defects.
2. Critical Functionality Defects.
3. Functionality Defects.
4. Security Defects.
5. User Interface Defects.

* **Advantage of Bugzilla.**

1. Advanced search capabilities.
2. E-mail Notifications.
3. Modify/file bugs by e-mail.
4. Time tracking.
5. Strong security.
6. Customization.
7. Localization.

* **Difference between priority and severity.**

|  |  |
| --- | --- |
| **Priority** | **Severity** |
| It shows how soon the defect need  To be fixed by developer. | Severity is an indication of impact of defect  on the software. |
| It is associated with timelines or scheduling. | It is associated with product quality. |
| It is given by Test Lead or project manager. | It is given by QA Tester. |
| Driven by business values. | Driven by functionality. |
| Priority status is established on customer  Requirements. | Priority status is established on technical  aspect of the product. |

* **What are the different Methodologies in Agile Development Model?**

1. Scrum
2. Kanban
3. Extreme programming(xp)
4. Lean Development
5. Crystal

* **Explain the difference between Authorization and Authentication in Web testing What are the common problems faced in Web Testing?**

|  |  |
| --- | --- |
| **Authentication** | **Authorization** |
| Determine whether users are who they  Claim to be. | Determine what users can and can not access. |
| Usually done before authorization. | Usually done after successful completion of  authentication. |
| It usually needs the users login details. | While it needs user’s privilege or security levels |
| Generally , transmits info through to id token. | Generally , transmits info through an Access token. |
| Verifies user identity. | Permit access to resources. |

* **To create HLR & TestCase of WebBased(Whatsapp web, Instagram).**

[Here](Assignment2.xlsx)

* **To create HLR & TestCase on this Link.** [**https://artoftesting.com/**](https://artoftesting.com/)

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* **Write Scenario of only Whatsapp chat messages.**

[Here](Assignment2.xlsx)

* **Write Scenario of Pen.**

[Here](Assignment2.xlsx)

* **Write Scenario of Pen Stand**

[Here](Assignment2.xlsx)

* **Write Scenario of Door.**

[Here](Assignment2.xlsx)

* **Write Scenario of ATM.**

[Here](Assignment2.xlsx)

* **When to used Usability Testing?**

The goal of usability testing can and should be conducted on current iteration of a product before beginning

any new design work, after you have begun the strategy work around a brand new site or app.

* **What is the procedure for GUI Testing?**

1**.** Manual based testing.

2. Record and Replay

3. Model based testing.

* **Write a scenario of Microwave Owen**

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* **Write a scenario of Coffee vending Machine**

[Here](Assignment2.xlsx)

* **Write Scenario of chair.**

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* **To Create Scenario(Positive & Negative) 1.Facebook Chat on Mobile 2.Gmail(Receiving mail) 3.Online shopping to buy product(flipkart).**

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* **Write Scenario of Wrist Watch.**

[Here](Assignment2.xlsx)

* **Write Scenario of Lift (Elevator).**

[Here](Assignment2.xlsx)

* **Write Scenario of Whatsapp Group (generate group).**

[Here](Assignment2.xlsx)

* **Write Scenario of instagram (video call with chat).**

[Here](Assignment2.xlsx)

* **Write Scenario of Whatsapp payment.**

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