**What is Software?**

A Software is a collection of computer programs that helps us to perform a task.

**Types of Software's?**

1) System software

Ex: Device drivers, Operating Systems, Servers, Utilities, etc.

2) Programming software

Ex: compilers, debuggers, interpreters, etc.

3) Application software

Ex: Web Applications, Mobile Apps, Desktop Applications etc.

**What is software Testing?**

Software Testing is a part of software development process.

Software Testing is an activity to detect and identify the defects in the software.

The objective of testing is to release quality product to the client.

**Software Quality**

* Bug-free
* Delivered on time
* Within budget
* Meets requirements and/or expectations
* Maintainable

**Project & Product ?**

**Project:**

* Project means developed based on customer requirement i.e., specific to customer.
* Example all service-based companies (Value Labs, Zen Q, etc.)

**Product:**

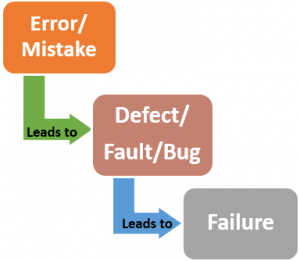
* Product means developed based on market requirement i.e., first we need to capture all market requirements or user requirements and then we will develop product.
* Example all service-based companies (Microsoft , google, Oracle, etc.)

**Why do we need Testing?**

To deliver quality product to customer

**Error, Bug/defect & Failure?**

A mistake in coding is called Error, error found by tester is called Defect, defect accepted by development team then it is called Bug, build does not meet the requirements then it Is Failure.



**Why the software has bugs?**

Software complexity

Miscommunication or no communication

Programming errors

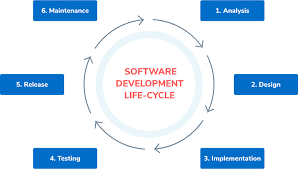
Changing requirements

Lack of skilled testers

**3P's (**People, Process, Product**)**

**What is SDLC ?**

* Stands for Software development life cycle
* SDLC is complete software development process for beginning to end



**Popular SDLC Models :**

1. Waterfall Model/ Linear Model
2. Iterative Model/ Spiral Model / Version Control Model
3. V Model

**Waterfall Model/ Linear Model**



**Phase1** : Requirement Analysis : Business analyst or Product owner or Product manager will collect all requirements from customer and prepare BRS and SRS document

**Input** : Customer Requirements

**Output**: BRS & SRS Documents

**BRS - Business Requirement Specification:**

* The BRS document stands for Business Requirement Specification. To create the BRS document, the Business analyst will interrelate with the customers. The BRS document includes the business rules, the project's scope, and in-detail client's requirements.
* In this document the client describes how their business works or the software they need.
* For the CRS, the details will be written in the simple business (English) language by the BA (business analyst), which developers and the test engineers cannot understand.
* BRS is a formal document, which specifies the needs given by the customer.
* BRS is generally developed by the BA (Business Analyst).

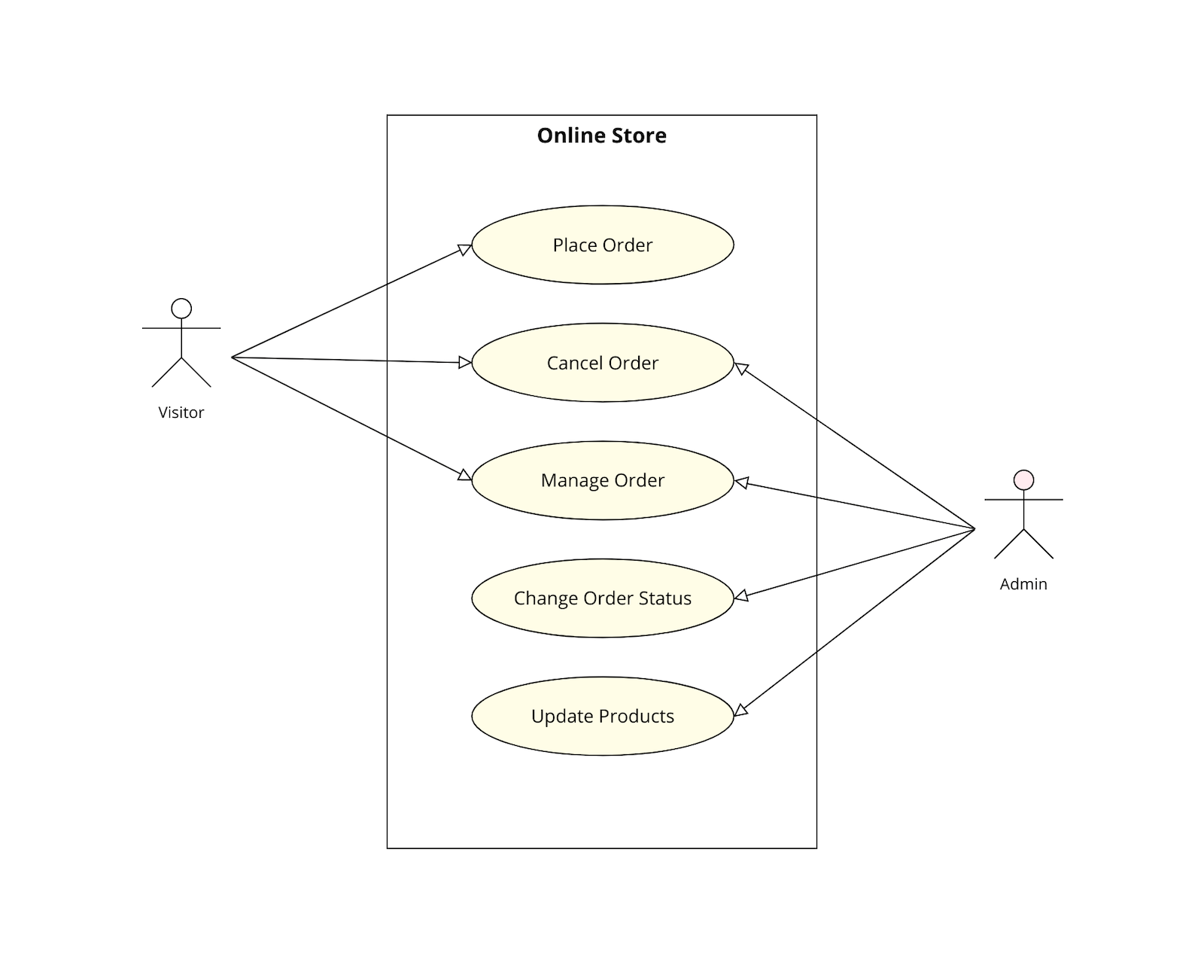
**SRS - System Requirement Specification:**

* The SRS document stands for Software Requirement Specification.
* In this document, the Business Analyst will collect the Customer Requirement Specifications (CRS) from the client and translate them into Software Requirement Specification (SRS).
* The SRS contains how the software should be developed and given by the Business Analyst (BA).
* In other words, we can say that the SRS document is used to covert the customer information into a detailed document, which can easily understand by the developers and the test engineers.
* SRS defines the functional and non-functional needs of the software.
* SRS documentation includes a set of use cases that explain all the interactions the users will have with the software. Use cases are also known as functional requirements. In addition to use cases, the SRS also contain non-functional requirements.
* The SRS document is developed by the SA (System Architect)

**Use case:**

* Use case explain the requirement.
* Use case contains 3 Items.

1. Actor
2. Action
3. Outcome



**FRS - Functional Requirement Specification:**

FRS includes requirements, converted into functionality, and says that how this requirement is going to work as a part of a proposed system. FRS includes requirement converted into the way it is going to work as a part of proposed system.

**Phase2** : Design : Solution Architect/Business Architect will prepare HLD & LLD document based on BRS/SRS Documents

**Input** : SRS Documents

**Output**: HLD & LLD Documents

|  |  |  |
| --- | --- | --- |
| **Difference between High Level Design and Low-Level Design :** | | |
| S.No | HIGH LEVEL DESIGN | LOW LEVEL DESIGN |
| 1 | High Level Design is the general system design means it refers to the overall system design. | Low Level Design is like detailing HLD means it refers to component-level design process. |
| 2 | High Level Design in short called as HLD. | Low Level Design in short called as LLD. |
| 3 | It is also known as macro level/system design. | It is also known as micro level/detailed design. |
| 4 | It describes the overall description/architecture of the application. | It describes detailed description of each and every module. |
| 5 | High Level Design expresses the brief functionality of each module. | Low Level Design expresses details functional logic of the module. |
| 6 | It is created by solution architect. | It is created by designers and developers. |
| 7 | Here in High Level Design the participants are design team, review team, and client team. | Here in Low Level Design participants are design team, Operation Teams, and Implementers. |
| 8 | It is created first means before Low Level Design. | It is created second means after High Level Design. |
| 9 | In HLD the input criteria are Software Requirement Specification (SRS). | In LLD the input criteria are reviewed High Level Design (HLD). |
| 10 | High Level Solution converts the Business/client requirement into High Level Solution. | Low Level Design converts the High-Level Solution into Detailed solution. |
| 11 | In HLD the output criteria are data base design, functional design, and review record. | In LLD the output criteria are program specification and **unit test plan.** |

**Phase3** : Implementation : Developers develop the application based on HLD & LLD Documents.

**Input** : HLD & LLD Documents

**Output**: Software

**Phase4** : Testing : Tester start testing on software

**Input** : Software

**Output**: Test Plan ,Test Cases ,Test Executions & Test Results.

**Phase5** : Deployment /Release : Deployment team will prepare release document based on Test Results.

**Input** : Test Plan ,Test Cases ,Test Executions & Test Results.

**Output**: Release Document

**Phase6** : Maintenance : Deployment team will deploy/install the application on customer environment

**Input** : Software & Release Document

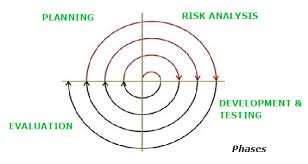
**Advantages of Waterfall Model:**

1. Quality of the product will be good.
2. Since Requirement changes are not allowed, chances of finding bugs will be less.
3. Initial investment is less since the testers are hired at the later stages.
4. Preferred for small projects where requirements are feezed

**Disadvantages of water model:**

1. Requirement changes are not allowed.
2. If there is defect in Requirement that will be continued in later phases.
3. Total investment is more because time taking for rework on defect is time consuming which leads to high investment.
4. Testing will start only after coding.

**Iterative Model/ Spiral Model / Version Control Model:**



**Advantages of Spiral Model:**

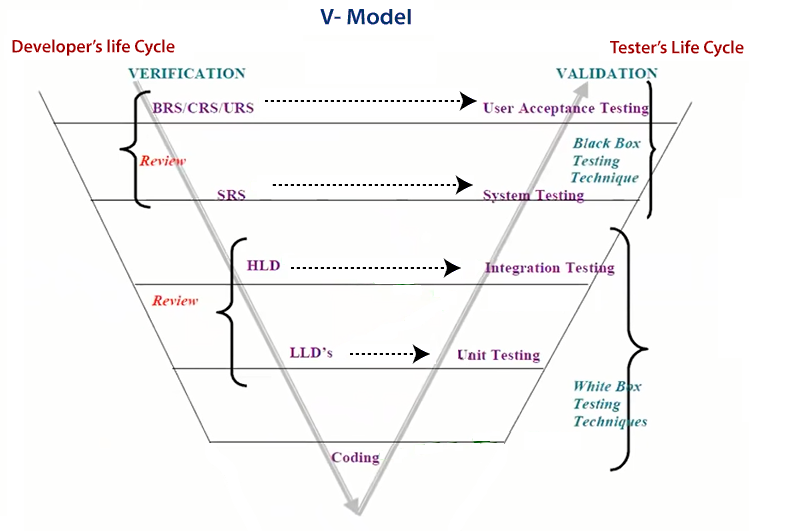
1. Testing is done in every cycle, before going to the next cycle.
2. Customer will get to use the software for every module.
3. Requirement changes are allowed after every cycle before going to the next cycle.
4. Preferred for Product based companies.

**Disadvantages of Spiral Model:**

1. Requirement changes are NOT allowed during the cycle.
2. Every cycle of spiral model looks like waterfall model.
3. There is no testing in requirement & design phase.

**V Model:**

* Before agile we have V -model
* In v-model both development and testing will go parallelly



**Advantages(Pros):**

* Testing is involved in each and every phase.
* This saves a lot of time. Hence a higher chance of success over the waterfall model.

**Disadvantages(Cons):**

* Documentation is more.
* Initial investment is more.
* If any changes happen in the midway, then the test documents along with the required documents, has to be updated.
* The V-shaped model should be used for small to medium-sized projects where requirements are clearly defined and fixed.

**Verification** is static testing technique.

Here we need to verify every document created for software development, before software development phase is started i.e., whether the document is properly prepared or not we need to ensure correctness and completeness of the document.

Verification done before software development started.

it mainly focusses on Documentation.

So as part of Verificationwe perform

1. Reviews
2. Walkthroughs
3. Inspections

**Static testing techniques:**

1. **Review**

A review is a systematic examination of a document by one or more people with the main aim of finding and removing errors early in the software development life cycle. Reviews are used to verify documents such as,

* + - Requirement Reviews
    - Design Reviews
    - Code Reviews
    - Test plan reviews
    - Test cases reviews etc.

1. **Walkthrough**
   * + Walkthrough is a method of conducting informal group/individual review.
     + In a walkthrough, author describes and explain work product in an informal meeting to his peers or supervisor to get feedback.
     + Walkthrough is a static method of quality assurance.
     + Walkthrough is informal meetings but with purpose.
     + It's not pre-planned and can be done whenever required.
     + Also walkthrough does not have minutes of the meet.
2. **Inspection**

* An Inspection is most formal review type.
* In which at least 3 people will sit in the meeting 1- reader 2-writer 3- moderator plus concerned group review designed to identify problems as close to their point of origin as possible.
* Inspections improve reliability, availability, and maintainability of software product.
* Inspection will have a proper schedule which will be intimated via email to the concerned developer/tester.

**Validation** is coming under testing part; it is dynamic testing technique.

Testing the actual software.

once software is ready/developed then we perform the validation testing i.e., we check whether the software is working according to the customer or not.

* Takes place after verifications are completed.
* Focus on Software
* So as part of validation we perform

1. Unit testing
2. Integration
3. system testing
4. UAT testing

**Dynamic testing techniques or Levels of testing**

1. Unit testing
2. Integration
3. System testing
4. UAT(User Acceptance Testing)

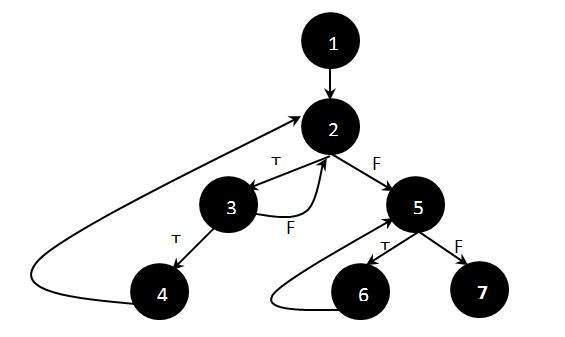
**Unit Testing:**

* A unit is a single component or module of a software.
* Unit testing is process of testing a single program /single component / single module or piece of software.
* This is also called white box testing.
* It will be performed by a programmer or developer.
* Unit testing techniques:
  1. Basis path testing

This technique used for designing test cases intended to examine all possible paths of execution at least once. Creating and executing tests for all possible paths results in 100% statement coverage and 100% branch coverage.

Example:

**Step 1 :**Draw the Flow Graph of the Function/Program under consideration as shown below



**Step 2** : Determine the independent paths.

Path 1: 1 - 2 - 5 - 7

Path 2: 1 - 2 - 5 - 6 - 7

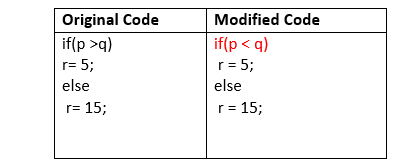
Path 3: 1 - 2 - 3 - 2 - 5 - 6 - 7

Path 4: 1 - 2 - 3 - 4 - 2 - 5 - 6 -5- 7

* 1. Control structure testing
     1. Conditional coverage
     2. Loops Coverage
  2. Mutation Testing

In mutation testing we insert errors purposely into a program (under test) to verify whether the existing test case can detect the error or not.

Example :



**Integration Testing:**

* it is process of testing the communication between 2 or more modules is called integration testing.

Diagram

Description automatically generated

This is also called internal testing or white box testing.

Developer will perform this testing

**Types of integration testing:**

1. Incremental Integration Testing

Incrementally adding the modules and testing the data flow between the modules.

It has three approaches

* 1. Top Down
     + Incrementally adding the modules and testing the data flow between the modules. And ensure the module added is the child of previous module.
  2. Bottom Up
     + Incrementally adding the modules and testing the data flow between the modules. And ensure the module added is the parent of the previous module.
  3. Sandwich/Hybrid Approach
     + Combination of Top-Down & Bottom-Up approach is called Sandwich Approach.

1. Non- Incremental Integration Testing
   * Adding all the modules in a single shot and test the data flow between modules.
   * We use this method when,

a) When data flow is very complex

b) When it is difficult to identify who is parent and who is child.

* It is also called Big – Bang method

Drawbacks:

* 1. We might miss data flow between some of the modules.
  2. If you find any defect we can’t understand the root cause of defect.

**System Testing :**

* Here System means complete software or application.
* System testing is process of testing end to end functionality of an application w.r.t customer requirement( i.e., testing entire/complete application functionality)
* This is also called as black box testing.
* This testing is conducted by testing team.
* After completion of component and integration level testing's we start System testing. Before conducting system testing we should understand the customer requirements.
* Preparing the test cases , executing the testcase and reporting the bugs all these comes under system testing.

**What are the types of system testing?**

There are Two types of system testing

1. Functional Testing
2. Non-Functional Testing

**Functional Testing:**

* Functionality is nothing but behavior of application.
* Functional testing talks about how your feature should work.
* Under FT we will test application UI(GUI), Object Properties Testing (flows, navigations), Database testing, error handling testing, cookies & Session’s testing , links testing & Usability Testing.

**User Interface Testing (GUI) :**

* Graphical User-interface Testing or GUI testing is a process of testing the user interface of an application.
* A graphical user interface includes all the elements such as menus, checkbox, buttons, colors, fonts, sizes, icons, content, and images are correctly placed, aligned, visible or not.

**GUI Testing Checklist:**

* Testing the size, position, width, height of the elements.
* Testing of the error messages that are getting displayed.
* Testing the different sections of the screen.
* Testing of the font whether it is readable or not.
* Testing of the screen in different resolutions with the help of zooming in and zooming out.
* Testing the alignment of the texts and other elements like icons, buttons, etc. are in proper place or not.
* Testing the colors of the fonts.
* Testing whether the image has good clarity or not.
* Testing the alignment of the images.
* Testing of the spelling.
* The user must not get frustrated while using the system interface. Testing whether the interface is attractive or not.
* Testing of the scrollbars according to the size of the page if any.
* Testing of the disabled fields if any.
* Testing of the size of the images.
* Testing of the headings whether it is properly aligned or not.
* Testing of the color of the hyperlink.
* Testing UI Elements like button, textbox, text area, check box, radio buttons, drop downs, links etc.

**Object Properties Testing:**

Object properties testing: Check the properties of objects(WebElement’s) present on the Application.

Ex: Enable, disable, visible, Focus.

**Database Testing/Backend testing:**

* DML Operations (Data Manipulation Language)

**Insert, delete, update, select**

* DDL Operations (Data Definition Language)

**create, drop, rename, alter etc.**

* Table & Column level validations ( Column type, column length, number of columns...)
* Relation between the tables (Normalization)
* Functions
* Procedures

**Error Handling Testing:**

* Verifying the error messages while performing incorrect actions on the application.

Error messages should be readable.

User understandable/Simple language.

**Cookies & Sessions Testing:**

* Cookies are temporary files created by Browser while browsing the pages through internet.
* Sessions are time slots created by the server. Session will be expired after some time (If you are idle for some time)

**Links Testing:**

* Verifying links are navigating to proper page or not.

Internal links.

External links

Brokens links

**Usability Testing:**

* During this testing validates application provided context sensitive help or not to the user.
* Checks how easily the end users are able to understand and operate the application is called usability testing.

**Non-Functional Testing:**

Once FT is completed then we will go non-FT, here we test

* + - Performance Testing : Speed of the application.
      * **Load**: Increasing the load gradually on system and test the speed of the application is called load testing.
      * **Stress** suddenly increase/decrease the load on the application and check speed of the application.
      * **Volume**: Check how much data is able to handle by the application.
    - Security testing: Verifying an application is secured or not.
      * Authentication : Users are valid or not
      * Authorization/Access Control : permissions of the valid user.
    - Recovery testing : Verifying the application changing properly from abnormal to normal.
    - Compatibility Testing : Verifying an application is properly working across different browsers, databases, operating systems (OS). They should be performed whenever a build becomes stable enough to undergo testing.

**Forward Compatibility** : Testing current build(software) is working properly in next update version of OS or Browsers.

**Backward Compatibility** : Testing current build(software) is working properly in previous version of OS or Browsers.

* + - Configuration/Hardware Testing: Testing an against various combinations of software and hardware to find out the best configuration under which the system can work without any flaws or issues
    - Installation testing: Verifying the installation process of an application.
      * Check screens are clear to understand.
      * Screens navigation
      * Simple or not
      * Un-installation
    - Sanitation/Garbage Testing : If any application provides extra features/functionality then we consider them as bug.

**Regression Testing:**

Testing conducts on modified build to make sure there will not be impact on existing functionality because of changes like adding/deleting/modifying features.

* Unit regression testing:
  + Testing only the changes/modifications done by the developer.
* Regional Regression Testing:
  + Testing the modified module along with the impacted modules
  + Impact Analysis meeting conducts to identify impacted modules with QA & Dev.
* Full Regression:
  + Testing the main feature & remaining part of the application.
  + Ex: Dev has done changes in many modules, instead of identifying impacted modules, we perform one round of full regression.

**Re-Testing:**

* Whenever the developer fixed a bug, tester will test the bug fix is called Retesting.
* Tester close the bug if it worked otherwise re-open and send to developer.
* To ensure that the defects which were found and posted in the earlier build were fixed or not in the current build.
* Example

Build 1.0 was released. Test team found some defects (Defect Id 1.0.1, 1.0.2) and posted.

Build 1.1 was released, now testing the defects 1.0.1 and 1.0.2 in this build is retesting.

**Re-Testing Vs Regression Testing:**

* An Application Under Test has three modules namely login, Add User and Delete User.
* Delete User module depends on Add User module.
* If a tester found a bug on Add User module and posted. Once the bug is fixed, the tester needs to do Retesting to verify whether the bug related to the Add User is fixed or not and also tester needs to do Regression Testing to test the Delete User module which depends on the Add User module.

**Login 🡪 Add User🡪 Delete User**

**Smoke Testing:**

* Smokeand Sanity Testing come into the picture after build release.
* Smoke is an initial level of testing, smoke is mainly focusing on installation part i.e., build Is properly installed or not or somewhere it is broken or not.
* It is also called **Build Verification Testing** – because we check whether the build is broken or not.
* **Important Points to Remember**

1. When we are doing smoke testing, we do only positive testing (only valid data is entered)
2. Here, we test only basic or critical features • Here, we take basic features and test for important scenarios
3. Whenever the build comes to the customer, before the customer / client does Acceptance Testing, he also does Smoke Testing before doing Acceptance Testing
4. When the product is installed in production, we do quick smoke testing to ensure product is installed properly.

* **Why we do Smoke testing ?**

1. Just to ensure that product is testable
2. Do smoke testing in the beginning – catch bugs in basic features – send it to development team so that development team will have sufficient time to fix it.
3. Just to ensure that product is installed properly

**Sanity Testing:**

* Once the build is successfully installed, then we perform sanity testing to validate all basic scenarios (like login ,navigations, UI, paginations etc.)
* If sanity testing is successfully completed, then only we perform further testing process.

**Smoke Vs Sanity Testing:**

|  |  |
| --- | --- |
| Smoke Testing | Sanity Testing |
| Smoke Test is done to make sure the build we received from the development team is testable/stable or not | Sanity Test is done during the release phase to check for the main functionalities of the application without going deeper. |
| Smoke Testing is performed by both Developers and Testers | Sanity Testing is performed by Testers alone |
| Smoke Testing, build may be either stable or unstable | Sanity Testing, build is relatively stable |
| It is done on initial builds. | It is done on stable builds. |
| It is a part of basic testing. | It is a part of regression testing. |
| Usually it is done every time there is a new build release. | It is planned when there is not enough time to do in depth testing. |

Diagram

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**What is difference between White box, Black box testing & Gray box testing?**

* White box testing is process of testing internal login of a program by developer or programmer. Here we will not perform any system testing.
* Black box testing is process of testing end to end functionality of an application w.r.t customer requirement. Here we will not perform any internal testing.
* Gray box testing is combination of white & black box testing

Ex : Database testing.

**What is difference between QA & QC ?**

|  |  |
| --- | --- |
| QA | QC |
| Stand for Quality Assurance | Stand for Quality Control |
| It defines the complete process of software development activities | QC is the actual testing of the software. |
| All management people will come under this QA (So these people are assurance for the quality of the product at the end) | All testing members are come under this QC ( So these people are responsible for quality of the product) |
| It takes care of entire SDLC process | It takes care of entire STLC process |
| QA focuses on building in quality. | QC focuses on testing for quality. |
| QA is preventing defects. | QC is detecting defects. |
| QA is process oriented. | QC is Product oriented. |

**What is QE ?**

* QE stands for Quality Engineer
* Testing members who write code to test application are come under QE

**Exploratory Testing:**

* We have to explore the application, understand completely, and test it.
* Understand the application, identify all possible scenarios, document it then uses it for

testing.

* We do exploratory testing when the Application ready but there is no requirement document.

i.e. (randomly going to screens, links, and functionalities).

* If we don’t have functionality knowledge and documents to test the application and the build is ready to test, then we go with exploratory testing (ex : new jonnies)
* Test Engineer will do exploratory testing when there is no requirement documents.

**Drawbacks:**

* You might misunderstand any feature as a bug (or) any bug as a feature since you do not have requirement.
* Time consuming
* If there is any bug in application, you will never know about it.

**Adhoc Testing:**

* Testing application randomly without any test cases or any business requirement document.
* Adhoc testing is an informal testing type with an aim to break the system.
* Tester should have knowledge of application even thou he doesn't have requirements/test cases.
* This testing is usually an unplanned activity.
* if testing the application is completed still you have some time then we can perform adhoc testing to find out the corner scenarios or corner defects.
* If we are unable to cover all test cases in a given deadline, then we can perform adhoc testing instead for those remaining testcases.

**Graphical user interface

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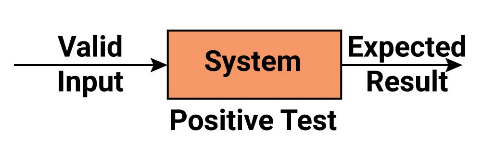
**Monkey/Gorilla Testing:**

* Testing application randomly without any test cases or any business requirement document.
* Adhoc testing is an informal testing type with an aim to break the system.
* Tester do not have knowledge of application.
* Suitable for gaming applications.

|  |  |  |
| --- | --- | --- |
| Adhoc Testing | Monkey Testing | Exploratory Testing |
| No Documentation | No Documentation | No Documentation |
| No Plan | No Plan | No Plan |
| Informal testing | Informal testing | Informal testing |
| Tester should know Application functionality | Testers doesn't know Application functionality | Testers doesn't know Application functionality |
| Random Testing | Random Testing | Random Testing |
| Intension is to break the application/find out corner defects | Intension is to break the application/find out corner defects | Intension is to learn or explore functionality of application |
| Any Applications | Gaming Applications | Any Applications which is new to tester |

**Positive Testing:**

* Testing the application with valid inputs is called as Positive Testing.
* It checks whether an application behaves as expected with positive inputs.



**Example:**

A picture containing graphical user interface

Description automatically generated

There is a text box in an application which can accept only numbers. Entering values up to 99999 will be acceptable by the system and any other values apart from this should not be acceptable.

To do positive testing, set the valid input values from 0 to 99999 and check whether the system is accepting the values.

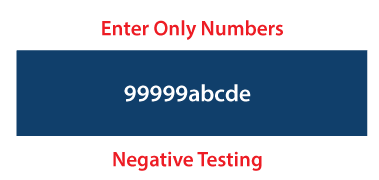
**Negative testing:**

* Testing the application with invalid inputs is called as Negative Testing.
* It checks whether an application behaves as expected with the negative inputs.

A picture containing shape

Description automatically generated

**Example:**



* Negative testing can be performed by entering characters 0 to 9. Either software system should not accept the values or else it should throw an error message for these invalid data inputs.

**Positive V/s Negative Test Cases :**

**Requirement:**

For Example if a text box is listed as a feature and in FRS it is mentioned as Text box accepts 6-20 characters and only alphabets.

**Positive Test Cases:**

* Textbox accepts 6 characters.
* Textbox accepts up to 20 chars’ length.
* Textbox accepts any value in between 6-20 chars’ length.
* Textbox accepts all alphabets.

**Negative Test Cases:**

* Textbox should not accept less than 6 chars.
* Textbox should not accept chars more than 20 chars.
* Textbox should not accept special characters.
* Textbox should not accept numerical.

**END-TO-END Testing:**

Testing the overall functionalities of the system including the data integration among all the modules is called end-to-end testing.

**Login 🡪 Add User🡪 Delete User🡪 logout**

**🡪 Modify User**

**Globalization Testing:**

* Performed to ensure the system or software application can run in any cultural or local environment.
* Different aspects of the software application are tested to ensure that it supports every language and different attributes.
* It tests the different currency formats; mobile number formats and address formats are supported by the application.
* For example, Amazon.com supports many of the languages and it can be accessed by people of different countries. Hence it is a globalized product.

**Localization Testing:**

* Performed to check system or software application for a specific geographical and cultural environment.
* Localized product only supports the specific kind of language and is usable only in specific region.
* Its testes the specific currency format, mobile number format and address format is working properly or not.
* For example, Baidu.com supports only the Chinese language and can be accessed only by people of few countries. Hence it is a localized product.

**Test design techniques.**

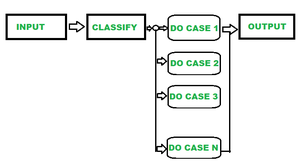
We have below techniques

1. Input domain testing
   1. Equivalence class partition ( validating valid or invalid input text)
   2. Boundary value analysis (length / range of input text)
2. Decision table technique
3. State Transition
4. Error guessing technique

**Input domain testing:**

IDT is verifying the input fields w.r.t requirements.

IDT is verifying the input fields with minimum number of inputs to check the output of a system.



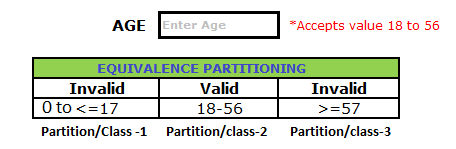
Here we use 2 techniques

1. Equivalence class partition ( validating valid or invalid input text)
2. Boundary value analysis (length / range of input text)

**Equivalence class partition:**

* (ECP) is a Black-Box testing technique
* It is a test design technique that divides the input test data of an application under test into each partition at least once of equivalent data from which test cases can be derived.
* An advantage of this approach is it reduces the time required for performing testing of a software due to less number of test cases.

**Example:**



**Normal Test Data :**

0,1,2,3 ……….56

**Divided input values into equivalence partition or classes**

From partition-1 (0 to 17) let **7** **invalid** input test data

From partition-1 (0 to 17) let **15** **invalid** input test data

From partition-2 (18 to 56) let **21** **valid** input test data

From partition-2 (18 to 56) let **35** **valid** input test data

From partition-2 (18 to 56) let **45** **valid** input test data

From partition-2 (18 to 56) let **55** **valid** input test data

From partition-3 (>=57) let **58** **invalid** input test data

From partition-3 (>=57) let **88** **invalid** input test data

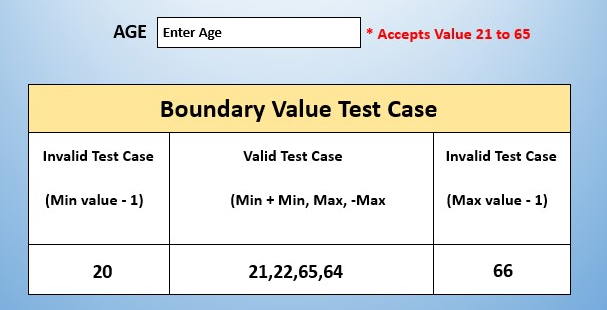
**Test Data using ECP:**

7, 15, 21, 35, 45, 55, 58, 88

**Boundary value analysis:**

* Boundary Value Analysis (BVA) is a Black-Box testing technique.
* It is used to check the errors at the boundaries of an input domain.
* The name comes from the Boundary, which means the limits of an area. So, BVA mainly focuses on testing both valid and invalid input parameters for a given range of a software component.

**Example**:



**Normal Test Data :**

21,22,23,..33.. ……….65

**Test Data using BVA:**

20,21,22,65,64,66

**Decision table technique:**

* Decision Table is also called as Cause-Effect Table.
* This technique will be used if we have more conditions and corresponding actions.
* Decision table technique, we deal with combinations of inputs.
* To identify the test cases with decision table, we consider conditions and actions.

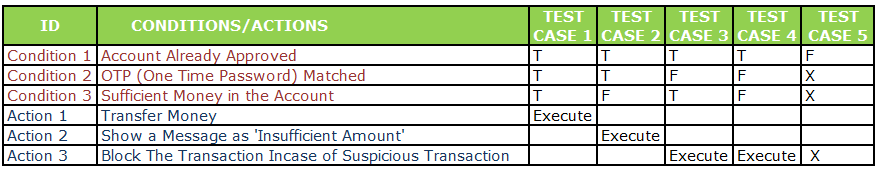
**Decision Table Example:**

* Take an example of transferring money online to an account which is already added and approved.
* Here the conditions to transfer money are

1. Account already approved
2. OTP (one time password) matched
3. Sufficient money in the account

* And the actions performed are

1. Transfer money
2. Show a message as insufficient amount
3. Block the transaction in case of suspicious transaction

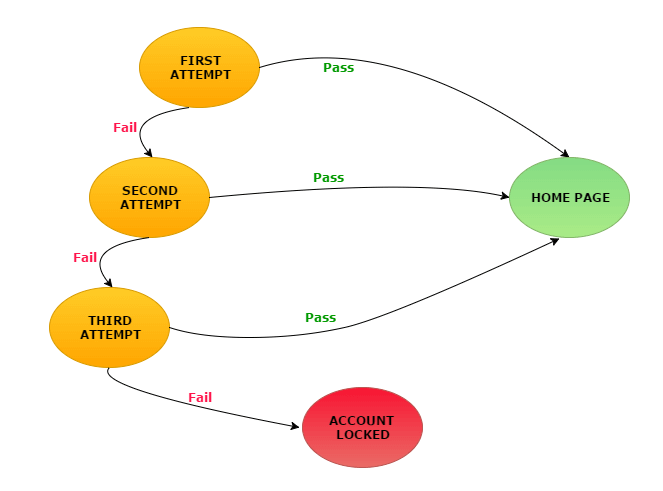


**State Transition:**

* In State Transition technique changes in input conditions change the state of the Application.
* This testing technique allows the tester to test the behavior of an AUT.
* The tester can perform this action by entering various input conditions in a sequence.
* In State transition technique, the testing team provides positive as well as negative input test values for evaluating the system behavior.

**State Transition Example:**

Take an example of login page of an application which locks the username after three wrong attempts of password.



|  |  |  |  |
| --- | --- | --- | --- |
| State | Login | Correct Password | Incorrect Password |
| S1 | First Attempt(S1) | S4 | S2 |
| S2 | Second Attempt(S2) | S4 | S3 |
| S3 | Third Attempt(S3) | S4 | S5 |
| S4 | Home Page(S4) |  |  |
| S5 | Account Locked(S5)  Display a message as "Account locked, please contact Admin" |  |  |

**Error Guessing:**

* Error guessing is one of the testing techniques used to find bugs in a software application based on tester's prior experience.
* In Error guessing we don't follow any specific rules.
* It depends on Tester Analytical skills and experience.

**Some of the examples are:**

* + Submitting a form without entering values.
  + Entering invalid values such as entering alphabets in the numeric field.

**STLC**:

* stand for software testing life cycle
* it is part of SDLC

**STLC Phases:**

STLC has the following different phases, but it is not mandatory to follow all phases. Phases are dependent on the nature of the software, or the product, time and resources allocated for the testing and the model of SDLC that is to be followed.

Diagram

Description automatically generated

Text, timeline

Description automatically generated

There are **6** major phases of STLC −

* **Requirement Analysis** − When the SRD is ready and shared with the stakeholders, the testing team starts high level analysis concerning the AUT (Application under Test).
* **Test Planning** − Test Team plans the strategy and approach (usually prepared by **the Test Lead or Test Manager**)
* **Test Case Designing** − Develop the test cases based on scope and criteria.
* **Test Environment Setup** − When integrated environment is ready to validate the product.
* **Test Execution** − Real-time validation of product and finding bugs.
* **Test Closure** − Once testing is completed, matrix, reports, results are documented.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No | PHASE | INPUT | ACTIVITIES | RESPONSIBILITY | OUTCOME |
| 1 | Test Planning | Project Plan | Identify the Resources | Test Lead/Team Lead(70%) | Test Plan Document |
|  | What to Test | Functional Requirements | Team Formation | Test Manager(30%) |  |
|  | How to Test |  | Test Estimation |  |  |
|  | When to Test |  | Preparation of Test Plan |  |  |
|  |  |  | Reviews on Test Plan |  |  |
|  |  |  | Test Plan Sign-Off |  |  |
|  |  |  |  |  |  |
| 2 | Test Designing | Project Plan | Preparation of Test Scenarios | Test Lead/Team Lead(30%) | Test Cases Document |
|  |  | Functional Requirements | Preparation of Test Cases | Test Engineers(70%) | Traceability Matrix |
|  |  | Test Plan | Reviews on Test Cases |  |  |
|  |  | Design Docs | Traceability Matrix |  |  |
|  |  | Use Cases | Test Cases Sign-Off |  |  |
|  |  |  |  |  |  |
| 3 | Test Execution | Functional Requirements | Executing Test Cases | Test Lead/ Team Lead(10%) | Status/Test Reports |
|  |  | Test Plan | Preparation Of Test Report/Test Log | Test Engineers(90%) |  |
|  |  | Test Cases | Identifying Defects |  |  |
|  |  | Build From Development Team |  |  |  |
|  |  |  |  |  |  |
| 4 | Defect Reporting & Tracking | Test Cases | Preparation Of Defect Report | Test Lead/ Team Lead(10%) | Defect Report |
|  |  | Test Reports/ Test Log | Reporting Defects To Developers | Test Engineers(90%) |  |
|  |  |  |  |  |  |
| 5 | Test closure/ Sign-off | Test Reports | Analyzing Test Reports | Test Lead/ Test Manager(70%) | Test Summary Reports |
|  |  | Defect Reports | Analyzing Bug Reporting | Test Engineer(30%) |  |
|  |  |  | Evaluating Exit Criteria |  |  |

**Test Plan Contents:**

* A Test Plan is a document contains scope, test strategy, objectives, schedule, deliverables, and resources required to perform testing for a software product.
* The Test Plan document is usually prepared by **the Test Lead or Test Manager** and the focus of the document is to describe what to test, how to test, when to test and who will do what test

**Test plan template contents:**

* Overview
* Scope
  + Inclusions
  + Test Environments
  + Exclusions
* Test Strategy (Ex: smoke, sanity, regression, automation etc.)
* Defect Reporting Procedure
* Roles/Responsibilities
* Test Schedule
* Test Deliverables(Ex: Test plan doc, test cases doc, bug reporting doc & test execution report)
* Entry and Exit Criteria
* Suspension and Resumption Criteria
* Tools
* Risks and Mitigations
* Approvals

**Test Scenario:**

* A possible area to be tested (What to test)
* **Testers** write the test scenarios. These test scenarios are approved by Team Lead, Business Analyst, or Project Manager depending upon the organization. Each test scenario must be tied to at least one user story

**Test Case:**

* Contains detailed steps to validate a functionality (How to test).
* Test case contains test steps, expected result & actual result.
* Prepared by Test Engineer.

**Test Scenario V/s Test Case:**

Test Scenario is **'What to be tested**' and Test Case is **'How to be tested'**.

**Example**:

Test Scenario: Checking the functionality of Login button

* TC1: Click the button without entering username and password.
* TC2: Click the button only entering Username.
* TC3: Click the button while entering wrong username and wrong password.

**Test Suite :**

Test suite is group of test cases which are belongs to same category.Diagram

Description automatically generated

**Test Case Contents:**

* Test Case ID
* Test Case Title
* Description
* Pre-condition
* Priority (PO, P1, P2, P3) - order
* Requirement ID
* Steps/Actions
* Expected Result
* Actual Result
* Test data

Example : **TestCases\_Doc**

**Requirement Traceability Matrix(RTM):**

* Traceability matrix is a table type document that is used in the development of software application to trace requirements
* It is prepared before the test execution process to make sure that every requirement is covered in the form of a Test case so that we don't miss out any testing. In the RTM document, we map all the requirements and corresponding test cases to ensure that we have written all the test cases for each condition.
* **The test engineer** will prepare RTM for their respective assign modules, and then it will be sent to the Test Lead. The Test Lead will go repository to check whether the Test Case is there or not and finally Test Lead consolidate and prepare one necessary RTM document.
* Requirement Traceability Matrix - Parameters include
* Requirement ID
* Req Description
* Test case ID's

Example : **Sample\_RTM\_doc**

**Test Environment:**

* Test Environment is a platform specially build for test case execution on the software product.
* It is created by integrating the required software and hardware along with proper network configurations.
* Test environment replica of real time environment.
* Test environment is also called as Test Bed.
* In Testing environment, people involved in installing the software
  1. Test engineer ( anybody from testing team )
  2. Anybody from development team
  3. Release engineer / Build engineer

**Test Execution:**

During this phase test team will carry out the testing based on the test plans and the test cases prepared.

**Entry Criteria**:

Test cases, Test Data & Test Plan.

**Activities**:

* Testcases are executed based on the test planning.
* Status of test cases are marked, like Passed, Failed, Blocked, Run, and others.
* Documentation of test results and log defects for failed cases is done.
* All the blocked and failed test cases are assigned bug ids.
* Retesting once the defects are fixed.
* Defects are tracked till closure.

**Deliverables**:

* Provides defect and test case execution report with completed results.

**Guidelines for Test Execution:**

* The Build being deployed to the QA environment is the most important part of the test execution cycle.
* Test execution is done in Quality Assurance (QA) environment.
* Test execution happens in multiple cycles.
* Test execution phase consists of Executing the test cases + test scripts( if automation).

**Defects/Bugs:**

* Bug can also be issue, error, fault, or failure. The bug occurred when developers made any mistake or error while developing the product.
* During Test Execution Test engineers are reporting mismatches as defects to developers through templates or using tools.
* Defect Reporting Tools:
  + Jira
  + Quality Center
  + Mantis etc.

**Defect Report Contents:**

* **Defect\_ID**- Unique identification number for the defect.
* **Defect Description** - Detailed description of the defect including information about the module in which defect was found.
* **Version** - Version of the application in which defect was found.
* **Steps** - Detailed steps along with screenshots with which the developer can reproduce the defects.
* **Date Raised** - Date when the defect is raised.
* **Reference** - where you Provide reference to the documents like. requirements, design, architecture or may be even screenshots of the error to help understand the defect.
* **Detected By** - Name/ID of the tester who raised the defect.
* **Status** - Status of the defect, more on this later
* **Fixed by** - Name/ID of the developer who fixed it
* **Date Closed -**  Date when the defect is closed
* **Severity** - which describes the impact of the defect on the application
* **Priority** - which is related to defect fixing urgency. Severity Priority could be High/Medium/Low based on the impact urgency at which the defect should be fixed respectively

**Defect Classification**:

![Chart

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SnmRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjEyOjAxIDIxOjA1OjMxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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CAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgI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**Defect Severity:**

* Severity describes the seriousness of defect and how much impact on Business workflow.
* Defect severity can be categorized into four class

1. **Blocker (Show Stopper)**: This defect indicates nothing can proceed further.

Ex: Application crashed, Login Not worked

1. **Critical**: The main/basic functionality is not working. Customer business workflow is

broken. They cannot proceed further.

Ex1: Fund transfer is not working in net banking.

Ex2: Ordering product in ecommerce application is not working.

1. **Major**: cause some undesirable behavior, but the feature/application is still functional.

Ex1: After sending email there is no confirm message.

Ex2: After booking cab there is no confirmation.

1. **Minor**: It won't cause any major break-down of the system

Ex: Look and feel issues, spellings, alignments.

**Defect Priority:**

* Priority describes the importance of defect.
* Defect Priority states the order in which a defect should be fixed.
* Defect priority can be categorized into three class

1. **PO (High):** The defect must be resolved immediately as it affects the system severely and cannot be used until it is fixed.
2. **P1 (Medium)**: It can wait until a new versions/build is created
3. **P2 (Low):** Developer can fix it in later releases.

**High severity, priority and low severity, priority defects:**

![Table

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TEARXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjEyOjAxIDIxOjE3OjUwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwMAAAkpIAAgAAAAMwMAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMToxMjowMSAyMToxNzoyMAAyMDIxOjEyOjAxIDIxOjE3OjIwAAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAH1MAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAegEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9/ooAKKACigAooAKKACigAoPSgDjtP8AFF4bQXdxGLmEwCRxDCUMchdVCZJw2ck/h71ptrk0N3JA9szXDNEkduGGAzKzH5vTCk9K5oVm0rnp1sDBSai7W+drWu/uewsHiI3c8dvDZSeaRIZdzqBFsfY3156Y61UtfE1x+9kntS1rFaW9w0ykBsSZySM9Bgn8D7U/bPR2IWBWqctdPxdjesr5L4TtGpEcUrRBuzleCR9DkfhVqt07q5wzi4S5WFFMkKKACigAooAKKACigAooAKKACigAooAKKACigAo7UAURpNoNLTTgh+zIFCruOeCCOfqKZdaLaXcrzP5iTMyMJI3KspUEAj04Yj8azdOLVjeOJqJ37/ra/wCQ610azs3V4UbeEZCzMSW3NuYn1JPOag/sG1ijf7OGBa0FrsZiUZQCF3DvjJ/Oj2UbFfWql231LWlWC6ZpVtZIc+TGFLf3j3P4nJ/GrlXFWSRjUm5zc31dwopkBRQAUUAFFABRQAUUAFFABWZr8s0OlA28zwyPc28XmIBkB5kVsZBHQntQA3+x5/8AoN6l+cX/AMRR/Y8//Qb1L84v/iKAD+x5/wDoN6l+cX/xFH9jz/8AQb1L84v/AIigCubZRftZHX9S+0LD55T939zJGc+XjqDUenpHqlvHcWmu6q8EsEdxHKURVdHBKkExjJwOR1GRnGaAHLAH1SXThrup/aIoUmYHysbXLBednXKNVr+x5/8AoN6l+cX/AMRQAf2PP/0G9S/OL/4ij+x5/wDoN6l+cX/xFAB/Y8//AEG9S/OL/wCIo/sef/oN6l+cX/xFAB/ZE/8A0G9S/OL/AOIrA8FjUdc8Mx397rmoGZri4jOwRAYSZ0XjZ6KKAN/+x5/+g3qX5xf/ABFH9jz/APQb1L84v/iKAD+x5/8AoN6l+cX/AMRR/Y8//Qb1L84v/iKAK62obUZLAa/qRuo4lmZP3fCMWAOfLx1Vvyqx/ZM3ONc1Hjr80X/xFAB/ZE//AEG9S/OL/wCIo/sef/oN6l+cX/xFAB/Y8/8A0G9S/OL/AOIo/sef/oN6l+cX/wARQAf2PP8A9BvUvzi/+Io/sef/AKDepfnF/wDEUAH9jz/9BvUvzi/+IqDSWuYtf1OxmvZ7mGGGCSMzbcqW8zP3QP7ooA3KKACsnxF/yC4v+v20/wDSiOgDWooAKKAOZ1Lw4+peKXvpXuY7caeIFa3u3hJfexwdjAkYI61xl7oupaJo+jxXaWaD7Pp1rIbpg0AeGKcvvydu3JTGSMnGOcUAS2Pg+PUdAmuLDTkONJjtrCSYIHWZJpizrjhQSVYMOoIr1SgAooAKKAEPQ1yXwz/5EiD/AK+7z/0pkoA66igAooA5u4g1G28ZTX0Gny3FrdWMNt50ckY8plklJJDMCRhweM965i18HaidPWNNMisr6004xtc+Yn+nXivHJHKSpyQHjLZfDfOeOtAGl4Y8N61Za6tzqZT7Nte9KiTdi8mCiQD/AGUCvg9/NPpXc0AFFABRQAViWP8AyOGs/wDXta/zloA26qX8txGkKWzRJLLIEDSoWUcE9AR6etAEHk61/wA/2n/+Ab//AB2uZ+INzrmleBtS1JbyxZ7QR3CBbRgdySKy9ZD3A7UAU4tN+KUsKSDxJoQDqGx9hbvT/wCyfin/ANDLoX/gC1AB/ZPxT/6GXQf/AABaj+yfin/0Muhf+ALUAH9k/FP/AKGXQv8AwBaj+yfin/0Muhf+ALUAH9k/FP8A6GXQv/AFqP7J+Kf/AEMuhf8AgC1AB/ZPxT/6GXQv/AFqP7J+Kf8A0Muhf+ALUAH9k/FP/oZdC/8AAFqP7J+Kf/Qy6F/4AtQAf2T8U/8AoZdB/wDAFq53wPp3xEk8LRNpmvaPDa/abnCS2jM27z33HPoWyR7GgDov7K+Kf/QyaD/4AtR/ZXxT/wChk0H/AMAWoAP7K+Kf/QyaD/4AtR/ZXxT/AOhk0H/wBagA/sr4p/8AQyaD/wCALUf2V8U/+hk0H/wBagA/sr4p/wDQyaD/AOALUf2V8U/+hk0H/wAAWoAP7K+Kf/QyaD/4AtR/ZXxT/wChk0H/AMAWoAP7K+Kf/Qy6D/4AtR/ZXxT/AOhl0H/wBagA/sr4p/8AQy6D/wCALVL4Gl1z/hKvE9p4gu7W6vLZbRfNtojGpUq7AY/GgDvKp33+tsv+vgf+gtQBcrjPix/ySzxB/wBe4/8AQloA62z/AOPKD/rmv8qmoAKKACigAooAKKACigArkfhp/wAiRB/193n/AKUyUAddRQAUUAFFABRQAUUAFFABXHeHf+Sk+NP92x/9FNQB2NU77/W2X/XwP/QWoA4jxTLdTeKbS2v7bTjA8bx2ltLrcls07Flw4Cpy3bbk9eO+a/jS/sr34K64lk8P+jW4ikjinMwjYMvy72ALfXHNAHdy3f2DQGu8A+Tb+ZhjgcLnrWPe+ObCznaJYJZyXKRtGykMQM+vy5H3c9e3HNAFmy8TJeXFxbi2lV4VkPmEDaxQISMZz0df1qRfEcT2k06w8QXQtpgzhduSPm/Uce/rxQBmWnjeO91EQxW7iGSGJ43K9zM8bA8/7IIHXG49qtad4wttSu7G2js7iOW7UOA5X5FMYkBOD6MB9TQBLp3iiK+vY7M2rRzuWBUSK20guOe+P3Z5xgEgVnx+OFS2Nzd2EixssZQRMH2swTKsfYvyccAHvQBYvvFgtZAi2/M9ktxArEbgxWVsMM8jEY6ZxmhfGtrM0ywWs7eVO1uz8bQf3QB65IJmT8j+IBY/4Sm2WysbiSJx9qYoFLKpBDBSME5zk/d68His9fiFp0m7y7a4cIrO+AOFAJyPUfL+GaAOl0+/i1G0SeLjcAWQkZQkA4P4EH8RXN/DT/kSIf8Ar7vP/SmSgDaj1+wcpmQor7sM/QYIAye2dykZ9RUsmtWEcLyGfhBllCncOCemM9FJ/CtHSkjJVoPqLPqttbSMkpZdoRiSMABt2M/98mo7nXbK0nijmZkWSJphIRgBQCTnPPQHtUOLWpamm7IktNXs725e3gkLSIu4jBHfBz6YORzjkH0pIdZsZ0uGWX/j2LCbjOzaxB6f7p460i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**Examples** :

1. **Low priority-Low severity** - A spelling mistake in a page not frequently navigated by users.
2. **Low priority-High severity** - Application crashing in some very corner case.
3. **High priority-Low severity** - Slight change in logo color or spelling mistake in company name.
4. **High priority-High severity** - Issue with login functionality.(user is not able to login to the application)
5. **High Severity- Low Priority** - Web page not found when user clicks on a link (user does not visit that page generally)
6. **Low Priority- Low Severity** - Any cosmetic or spelling issues which is within a paragraph or in the page.

**Defect Resolution:**

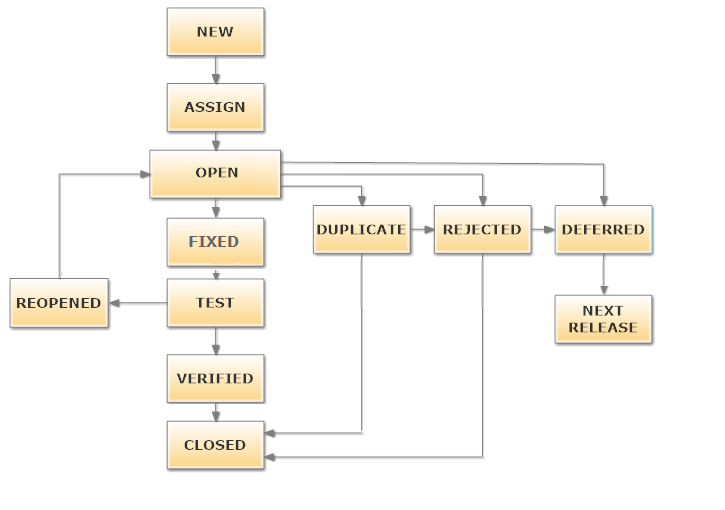
After receiving the defect report from the testing team, development team conduct a review meeting to fix defects. Then they send a Resolution Type to the testing team for further communication.

**Resolution Types:**

1. Accept
2. Reject
3. Duplicate
4. Enhancement
5. Need more information
6. Not Reproducible
7. As Designed
8. Fixed

**Defect Life Cycle or Bug Life Cycle:**



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**Test Cycle Closure:**

**Activities**

* Evaluate cycle completion criteria based on Time, Test coverage, Cost, Software, Critical Business Objectives, Quality.
* Prepare test metrics based on the above parameters.
* Prepare Test summary report.
* Qualitative and quantitative reporting of quality of the work product to the
* customer.
* Test result analysis to find out the defect distribution by type and severity.

**Deliverables**

* Test Closure report.
* Test metrics.

**Test Metrics Contents:**

* No. Of Requirements
* Avg. No. of Test Cases written Per Requirement
* Total No.of Test Cases written for all Requirement
* Total No. Of test cases Executed
* No. of Test Cases Passed
* No. of Test Cases Failed
* No .of Test cases Blocked
* No. Of Test Cases Un Executed
* Total No. Of Defects Identified
* Critical Defects Count
* Higher Defects Count
* Medium Defects Count
* Low Defects Count
* Customer Defects
* No.of defects found in UAT
* **% Of Test cases Executed:**
  + No.of Test cases executed / Total No. of Test cases written) \* 100
* **% Of test cases NOT executed:**
  + (No.of Test cases NOT executed/Total No. of Test cases written) \* 100
* **% Of Test cases passed**
  + (No.of Test cases Passed /Total Test cases executed) \* 100
* **% Of Test cases failed**
  + (No.of Test cases failed / Total Test cases executed) \* 100
* **% Of Test cases blocked**
  + (No.of test cases blocked / Total Test cases executed) \* 100
* **Defect Density:** Number of defects identified per requirement/s

No.of defects found / Size(No. of requirements)

* **Defect Removal Efficiency (DRE):**

(A / A+B) \* 100

(Fixed Defects/ (Fixed Defects + Missed defects) ) \* 100

A- Defects identified during testing/ Fixed Defects

B- Defects identified by the customer/Missed defects

* **Defect Leakage:**

(No.of defects found in UAT / No. of defects found in Testing) \* 100

* **Defect Rejection Ratio:**

(No. of defect rejected /Total No. of defects raised) \* 100

* **Defect Age**: Fixed Date - Reported date
* **Customer satisfaction** = No.of complaints per Period of time

**QA/Testing Activities:**

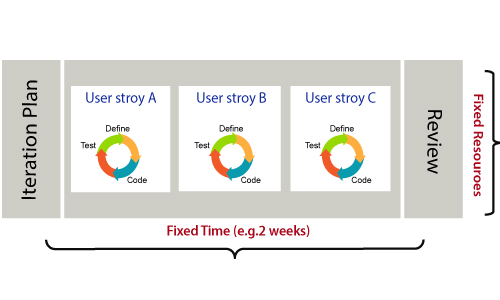
* + Understanding the requirements and functional specifications of the application.
  + Identifying required Test Scenario's.
  + Designing Test Cases to validate application.
  + Setting up Test Environment (Test Bed).
  + Execute Test Cases to valid application.
  + Log Test results (How many testcases pass/fail ).
  + Defect reporting and tracking.
  + Retest fixed defects of previous build Perform various types of testing in application.
  + Reports to Test Lead about the status of assigned tasks Participated in regular team meetings.
  + Creating automation scripts.
  + Provides recommendation on whether or not the application / system is ready for production.

**7 Principles of Software Testing:**

1. Start software testing at early stages. Means from the beginning when you get the requirements.
2. Test the software in order to find the defects.
3. Highly impossible to give the bug free software to the customer.
4. Should not do Exhaustive testing. Means we should not use same type of data for testing every time.
5. Testing is context based. Means decide what types of testing should be conducted based on type of application.
6. We should follow the concept of Pesticide Paradox. Means, if you are executing same cases for longer run, they won’t be find any defects. We have to keep update test cases in every cycle/release in order to find more defects.
7. We should follow defect clustering. Means some of the modules contains most of the defects. By experience, we can identify such risky modules. 80% of the problems are found in 20% of the modules.

**Agile model /Agile methodology /Agile process:**

* Agile is an Iterative and Incremental Process of software development. Each iteration of agile methodology takes a short time interval of 1 to 4 weeks.



* Requirements, plans, and results are evaluated continuously so teams have a natural mechanism for responding to change quickly.

**Agile Principles:**

1. Satisfy Customers Through Early Delivery

Our highest priority is to satisfy the customer through early delivery of valuable software.

Customer no need to wait for long time.

1. Welcome Changing Requirements Even Late in the Project

Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.

1. Continuous Deliver of valuable software

Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale

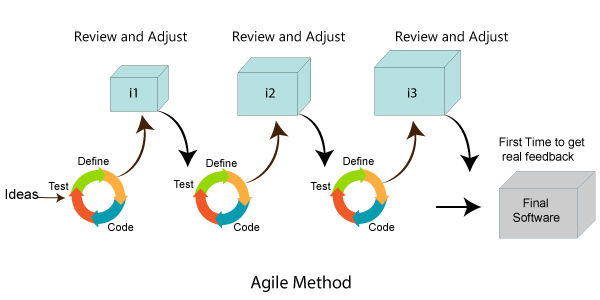
1. The Most Effective Way of Communication is Face-to-face

The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.

There will be good communication between Customer, Business Analyst, Developers & Testers.

**Advantages of Agile Methodology:**

1. Customer satisfaction is rapid, continuous development and delivery of useful software.
2. Customer, Developer, and Product Owner interact regularly to emphasize rather than processes and tools.
3. Product is developed fast and frequently delivered (weeks rather than months.)
4. A face-to-face conversation is the best form of communication.
5. It continuously gave attention to technical excellence and good design.
6. Daily and close cooperation between businesspeople and developers.
7. Even late changes in requirements are welcomed.

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**Disadvantages of Agile methodology:**

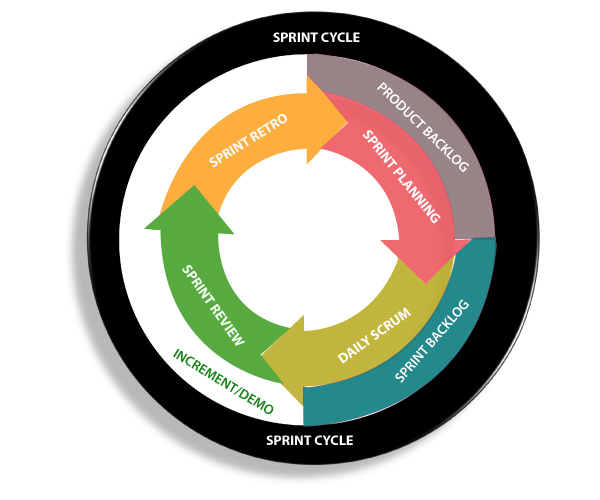
1. It is not useful for small development projects.
2. Less focus on designing and documentation.
3. Cost of Agile development methodology is slightly more as compared to other development methodology.
4. The project can quickly go out off track if the project manager is not clear about requirements and what outcome he/she wants.

**Difference between Agile and waterfall model:**

|  |  |
| --- | --- |
| **Agile methodology** | **Waterfall model** |
| It follows the incremental approach. | It is a sequential design process. |
| It divides the project development lifecycle into a sprint. | The software development process is divided into distinct phases. |
| Agile methodology is a flexible methodology. | The Waterfall is a structured software development methodology. |
| Agile is the collection of many different projects. | It is completed as one single project. |
| The test plan is reviewed after each sprint | Test plan is reviewed after complete development. |
| Testing team can take part in the requirements change phase without problems. | It is difficult for the testing team to initiate any change in needs. |

**Scrum:**

* Scrum is a framework through which we build software product by following Agile Principles.
* With scrum, a product is built in a series of repetition called **sprints**. It breaks down big complex projects into bite-size pieces. It makes projects more manageable, allows teams to ship high quality, work faster, and more frequently. The sprints give them more flexibility to adapt to the changes.
* Sprints are a short, time-boxed period for Scrum team that works to complete a set amount of work. Sprints are the core component of Scrum and agile methodology.



* Scrum includes group of people called as Scrum team.

1. **Product Owner**

A picture containing diagram

Description automatically generated

1. Scrum Master

The main role is facilitating and driving the agile process.

1. Dev Team

Develop the software

1. QA Team

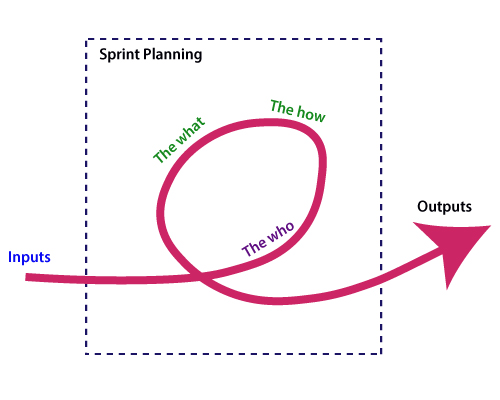
Test the software

**What is sprint planning?**

* Sprint plan is an action in Scrum that kicks off the sprint. The primary purpose of sprint plan is to define what can deliver in the sprint. It also focuses on how the work will be achieved. It is done in combination with the whole Scrum team members.
* Sprint is a period of time to complete the user stories, decided by the product owner and team.
* Before we start the development, we have to set up the sprint. We need to describe how long time is required to achieve the sprint goals usually 2-4 weeks of time and where we are going to start.

**Factors affecting Sprint planning**

* **What:** The product owner describes the goal of the sprint and the backlog items which contribute to achieve that goal.
* **How:** Agile development team plans its necessary work on how to achieve and deliver the sprint goal.
* **Who:** The product owner defines the goal based on the value that the customers seek. And the developer needs to understand how they can or cannot deliver that goal.
* **Inputs:** The product backlog provides the list of input stuff that could potentially be part of the current sprint. The team looks over the existing work done in incremental ways.
* **Outputs:** The critical outcome of sprint planning is to meet described team goal. The product set the goal of sprint and how they will start working towards the goal.



**Scrum meeting:**

Scrum meeting conducted by Scrum Master everyday 15 mins also called as scrum call/Standup meeting. Here we discuss

1. What did you do yesterday?
2. What will you do today?
3. Are there any impediments in your way?

**Sprint Review Meeting:**

* At the end of each sprint, scrum master will conduct sprint review meeting.
* Participants in the sprint review meeting are Scrum team.
* The purpose of the Sprint Review is **to inspect the outcome of the Sprint.**

**Sprint retrospective meeting**

* Scrum Master conducts this meeting after completion of sprint. The entire team, including product owner should participate.
* Its purpose is to: Examine how the just-completed sprint went as far as people, relationships, processes, and tools.
* Here Scrum master note areas for improvement and action items for future sprints.

**User Story** : A Feature/Functionality in a software

**Epic** Collection of user stories(module) .

**Sprint/Iteration** Period of time to complete the user stories, decided by the product owner and team, usually 2-4 weeks of time.

**Product backlog** Contains list of user stories. Prepared by product owner.

**Sprint backlog** List of committed stories by Dev/QA for specific sprint.

**Story point** rough estimation of user stories, will be given by Dev & QA in the form of Fibonacci series.

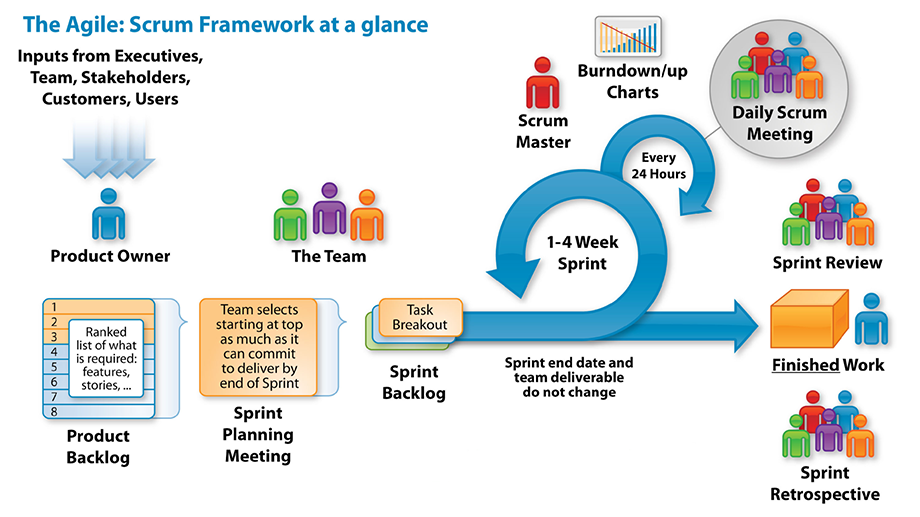
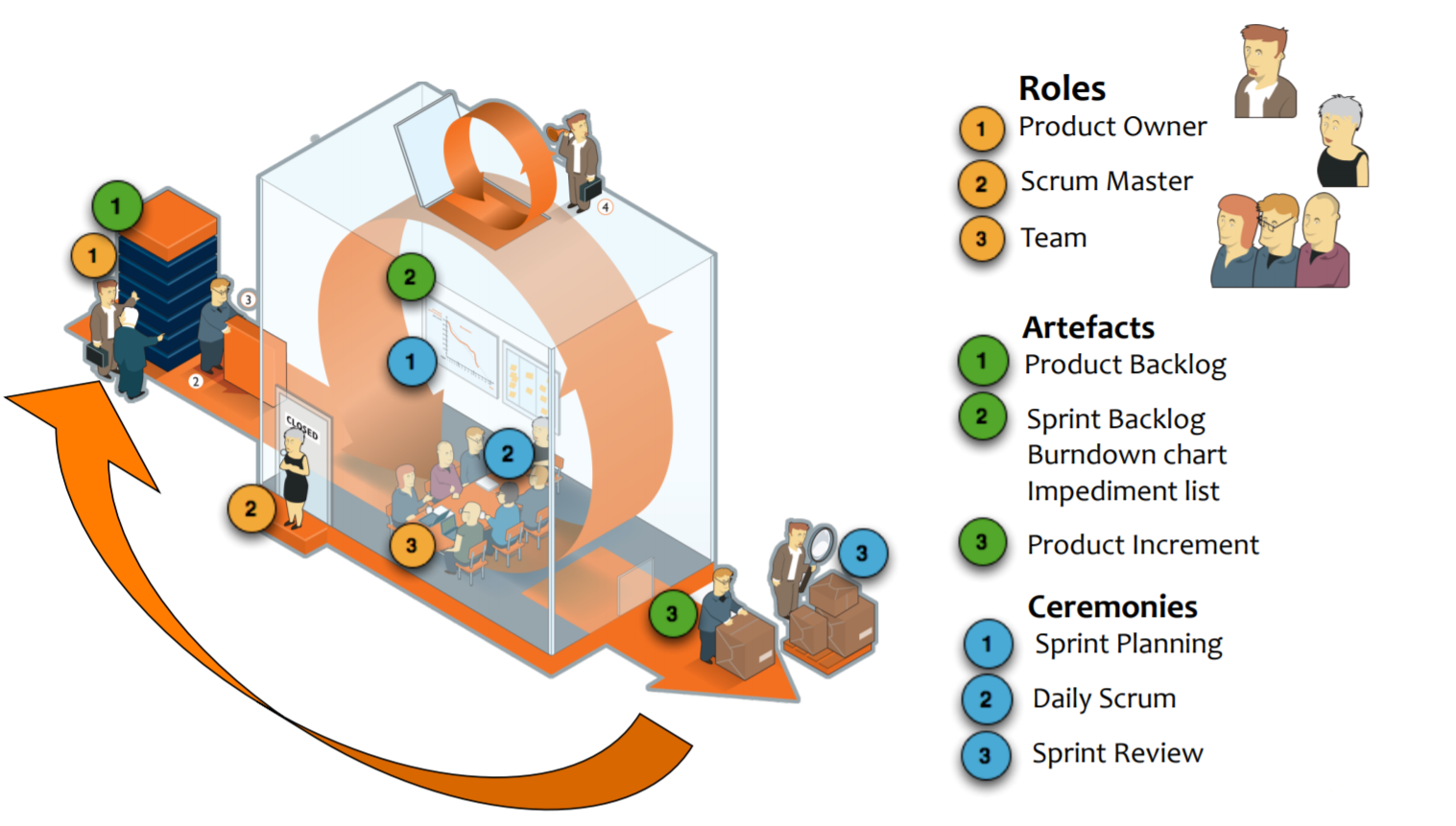
Example: 1 1 2 3 5 8...

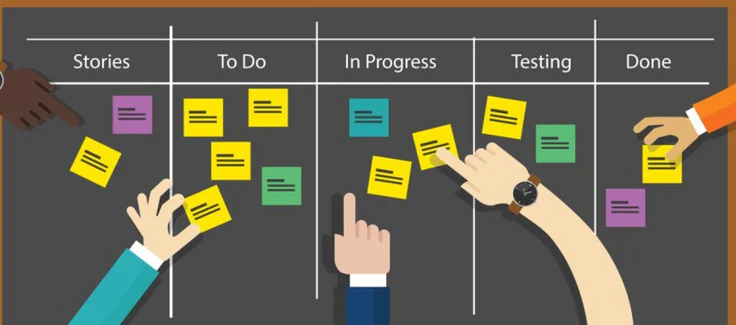
1 story point = 1 hour/ 1 day (6 hours)

Login --> Dev-4 QA-2 = 6 HOURS/ 1 Day

**Burndown chart** Shows how much work remining in the sprint. Maintained by the scrum master daily.

**Agile – Scrum Framework**:

**Scrum roles artifacts and ceremonies:**

**Scrum Board:** 

**Definition of Ready (DoR) & Definition of Done (DoD) :**

|  |  |
| --- | --- |
| **Definition of Ready (DOR)** | **Definition of Done (DoD)** |
| User Story is clear | Code produced (all 'to do' items in code completed) |
| User Story is testable | Code commented, checked in and run against current version in source control |
| User Story is feasible | Peer reviewed (or produced with pair programming) and meeting development standards |
| User Story defined | Builds without errors |
| User Story Acceptance Criteria defined | Unit tests written and passing |
| User Story dependencies identified | Deployed to system test environment and passed system tests |
| User Story sized by Development Team | Passed UAT (User Acceptance Testing) and signed off as meeting requirements |
| Scrum Team accepts User Experience artefacts | Any build/deployment / configuration changes are implemented / documented / communicated |
| Performance criteria identified, where appropriate | Relevant documentation / diagrams produced and / or updated |
| Team has a good idea what it will mean to Demo the User Story | Remaining hours for task set to zero and task closed |

**Manual Testing Project:**

1. Project introduction
2. Understanding & Explore the Functionality
3. Test Plan
4. Writing Test Scenarios
5. Writing Test Cases & Reviews
6. Environment Setup & Build deployment
7. Test Execution
8. Bug Reporting & Tracking
9. Sanity Testing, Re-Testing & Regression Testing
10. Test Sign off

**JIRA TOOL**:

* Jira Software is part of a family of products designed to help teams of all types manage work. Originally, Jira was designed as a bug and issue tracker
* The tool, developed by the Australian software company Atlassian.
* Jira software can be used for the following purposes:

1. Requirements and Test case management
2. In Agile Methodology
3. Project Management
4. Software Development
5. Product Management
6. Task Management
7. Test Management
8. Bug Reporting & tracking

**Example for Agile Tools**

Jira, VersionOne, Plan one &Team city

**Install and configure Jira tool**

Cloud :

Pro(Licensed)

Free version: 10 users/ 30 days

**Agile scrum activities:**

1) How to create project in Jira

2) How to add users/people in Jira

3) How to create Backlog -->Epic

4) How to create stories in Jira and add sub tasks & story points

5) Creating sprint in Jira

6) Adding user stories to sprint

7) Starting sprint

8) Adding sub-tasks to story 9) Sprint life cycle

**Test Management Activities (Zephyr):**

1) Test cases

2) Test cycle

3) update test cases passed/failed/blocked.

4) Report bugs

5) Reports

**Install zephyr plugin**

1. Create Test case in Jira Manually and import multiple test cases into Jira tool
2. Creating test cycles
3. Add test cases to cycle Execute/Update Test cases
4. Reporting bugs
5. Reports in Zephyr
6. Traceability Matrix