## " Manual Part -2"

\* Software Testing Life cycle !- [STLC]

- STLC is the activity which is perform by heasting team during the validation process.

- STLC having some stages to be follows:

1) Test Initiation

2) Test plan

2) Test case sinusio

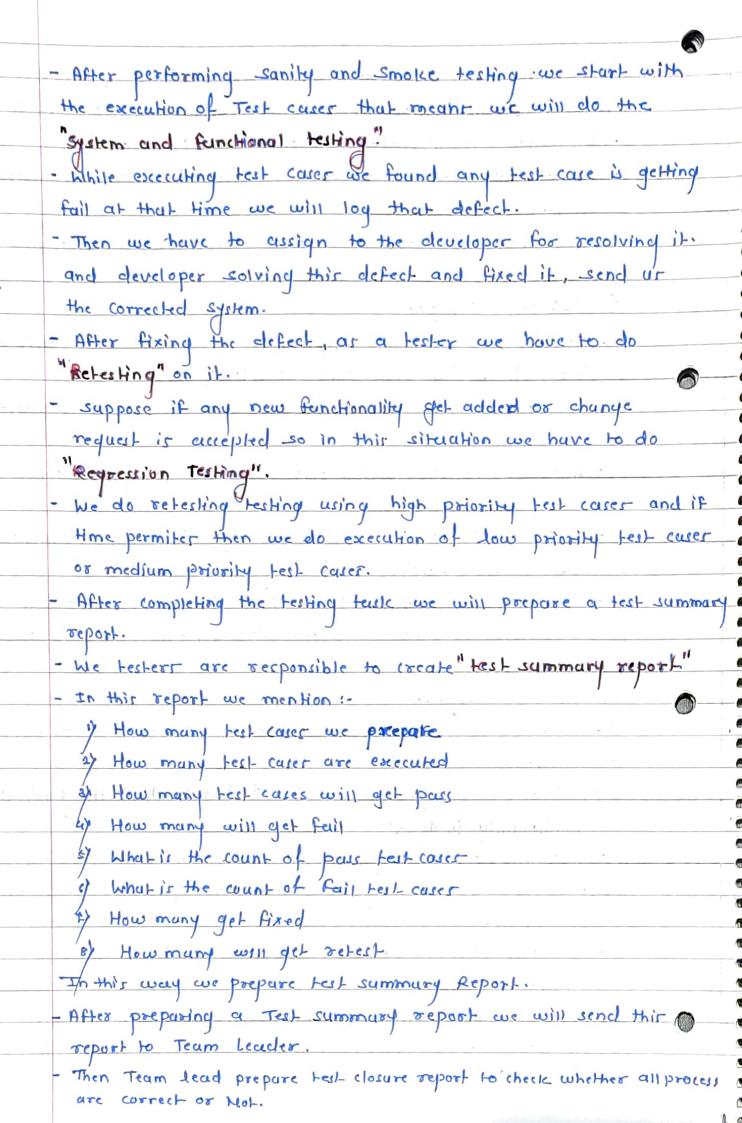
/ Test IniHation Testing:

y Test cases

- Test Initiation is the stage where we know the domain
- Requirements of project.
- which type of domain (Bunking, Ecommerse, Telecom etc) approue have to test.
- In this stage testing team understand the scope of the project.
- "project Munager" and "Team lead" will decide the Secope (manual testing, ApI testing, Automation so.on)
  and strategics for the testing.
- In this stage also they knowing about Riele involve in the project.
- e) Test plan :-
- generally test plan is prepared by "Team Lead"
- In test plane estimation part is done, team lead does the
- @ HimuHon.
- In this test plan user stoolet are distributed to team members involve in the project.

- In estimation there will be Work Allocation, Resource Allocation Wer storge distribution ar well ar task allocations is happens. - Estimation means start and end date of project. - In job allocation tests are get selected for doing the testing - Bured upon the scope of project jobs are get allocated. Test case singulo:-- To test the publicular application what are the possible ways that will be a test care smarrioes. - In short we can say that these are the possible mostr of the functionalitier. - According to the user stories we are going to write test - Test singio is the combination of test case singito and design with positive and Hegative aspects. - generally we write only positive test sinurious but we can check Megative sinariver for Smoothly wooling of the functionality. 4) Test case Design !-- Test care design starts after completion of test care - Test case design will do for " How to check the particular Functionality is depth " - According to the requirement which will gathered in user stories we have to prepare test sinurio first and then test Case designs. - In this aga tester we focuses on positive as well as Hegative sinusioes. - After the preparation of test cases, testing team will perform earity or smoke testing to check the recieved built is in steadle

Condition or Not.



\* Test plane ( for V-randel) :-Test plane for V-Model ove ar follows: - The duration for V-model is of 3-months. - Test plane for V-Model prepare by project transager and testing - In this 11-Model Input for test plane are as follows: a) SRS ( System Requirement - specification) - project Required TRM (Test Responsibility matrix) - What to test to project - There are some studer for y-model: There is a process in which 1) Team formation !-. In this team lead make team formation depend on TRM and development document. - firstly they consider which type of jobs present in Job allocation." Then they consider how many resources require for jobs. i.e "resource Allocation" - According to ses and TAM, the team formulion is done in which team lead check the resource availability. - Configure like how many repourcer available, is they having with safficient knowledge or not - After that they focuser on availability of test enviornment. it They check for the application require software is present ii) They check after build upgradation, test enviornment present - In this team lead also focuses on estimation i.e start date and end date of project. - Also fear lead will allocate the task allocate job as well as define their roles and responsibility of every team member. - After performing this teste team lead cheeler availability of enviornment that is what software | Hurdware are required for project.

2) Rick involve in the project !-There are different typer of risk occurred in the project that are as follows: Lack of Resources. ii) Lack of knowledge (ii) Lack of Test data in Lack of Requirement by Lack of communication between teasting team and development vi) Lack of communication between business Analyst and Team. Vije Software issues like dutabase issue, server issue villy Software issues like Connectivity between datesbuse and server. is required softwares are not orailable. x) Lucle of delay in delivery xi) Lack of defect tracking xii) Lack of budget xiii) Lack of development process Relyour - When we (have) do not have test data then bare on our previous experience we have to do Ad-hoc testing. - If any new person come to team then for new person knowledge transfer it required. - Resourcer are person involve in the project, if there are less availability of people in the project then extra work get assigned to them. - Lucle of development process Regiour means this is ruide behaviour or improfessional behaviour of development beam member with teaching toam member in that care with the permission of team leader we can contact to project rounager. - Juhan there is problem orises due to internal issues or because of change in requirement of customer than delay in delivary occures .

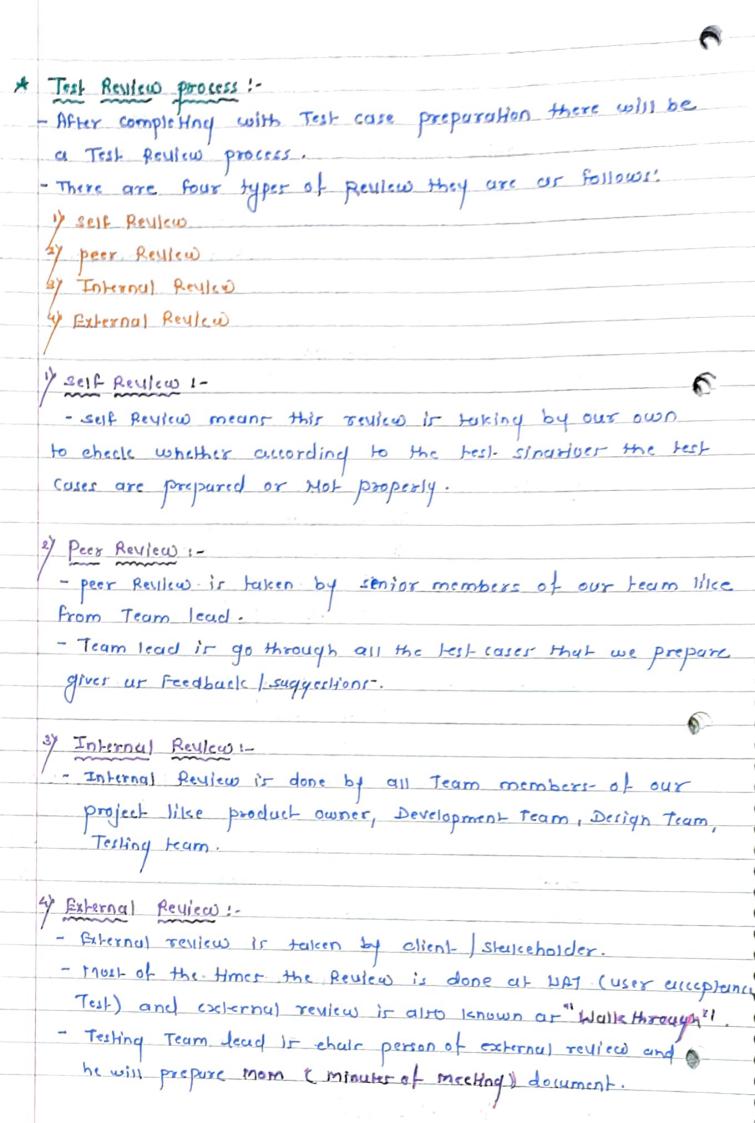
2) Prepare Test plane !-
- Team lead is responsible to create a test plane.
- In this Analyse what escart requirement of project or
client.
- According to the requirement prepare test cares.
- Decide what are the test items (which modules we are going
to test).
- Decide "features are to be kested" and "what to be kested"
- Decide the Acceptance conteria i.e test pass and test fail
Criteria.
- Also we will focus on which type of testing are needed for
particular functionality
2 to 1 to 1 to 1
Review Test plane !-
- In this Review test plane are reviewed by project manager
and team leader.
- They will check whatever we have planned is correct or Not.
- project nanager focuser on 3 factors:
BRS base coverage: - check if test plan is as per devlopment
document or Tem.
2) Try base corerage: check if which is mention in test plan
is as per TRM or Hot.
Risk base coverage: - Risk and their solution occure in
project.
- After that project manager give permission to make finalize
test Plan

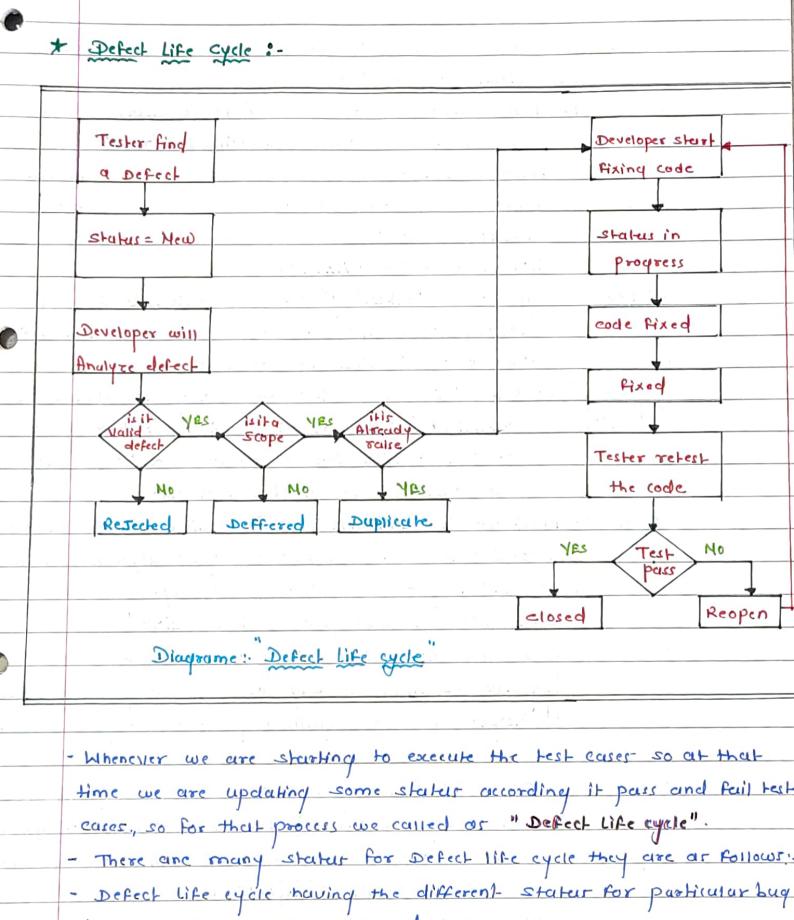
19.5

\* Test plane I for Agile Module ] - Agile tech plane is prepare by Test Anglacer / Team lead In Agile, I sprint is of near about 2 to a Wester process. = 50 the Agile test plane is divided into & weeks process for first Week !- it sprint planning I growning session if user slowy analysis My selection of test sinunioes escelanation!-- product owner, development beam, besting beam arranges one meeting be sprint planning meeting. - In which they are decider the strutagier. Methodologies to make sprint successful. - After that they planning for grooming session in which every thing well get discussed about the user storler, means detail obscussion in happen in this grooming session. - While completing cult grooming session, they are analyzing the user stories that which wer story get selected for the particular sprint. Review user slory of alle doubt to project owner. - on the basis of user stories they decider the test sinurious - Because user story means the exceed business requirement so with the help of it test sinuriver are finalize. Thiristhe Idoric plane for first bleek of eprint. for second Week !- i) Test case preparation, Test Review process Sanity I smoke Testing (1) system of Renctional Testing (v) Defect log process Explanation !-- In this second block we start writting with test cases for particular selected user storys.

- After worlding test cases there coll be a Test Resident procession.

- Test cases are get prepared with the help of wer stories. - Before starting with the execution of test cases we have to do sanity I smake testing to ensure either build is in stable condition or not. - After that start the Validation process ( that meant steat escenting test cases) with the system and functional Testing. - While excecuting test caser some are fail to reach to exact output, so in that case we have log that Defectfrom that point Defact life cycle for bug get started untile - This is the Work plane for second Weelc 87 For Third Week !- i) Refesting ii) Regression Testing ill) Test summary Report Vy Test closure Report Tringe to bust the Explanation! - In third we have to do retesting for checking Wither the defect get resolved it or Mot. - It any new functionalities get added or any change request accepted so in that case we have to de Regression testing to check the impact on excisting functionality / Application. - While completing with testings we have to prepare test summer opport in which we have to mention each every details- about pass test caser, full test caser, How many test cases prepare, count of fuil test cuser and so on. - After preparing Test summary Report will send it to Team ~ Then Team lead prepare Test closure report to check whether all process are correct or Mot. - finally and of sprint.





below are the possible states of bug.

1) New: - When defect is loyed and posted for the first time

at that time Status of that defect in New!

Assign 1- once the buy ir posted by as we will 'assign's that buy to developer. After Assignming particular buy to developer at that Home the statur of defect will be open! When developer accept the bug and maker Meccessary Fixed !change in the code at well at Verifics watever singitiver war failed that is working properly at that Home statur in "Hxed". We do the "refesting" of bug which is fixed by developer and also we will check whether singing -oes war feil that is working or Not. :- After fixing the defect by development team and referling by we will "Verify" chester) there is Verified no functionality break means there is no issue and functionalities are Worland Property. 1) closed: - Whatever the functionalities are mentioned in user story according to that developer developed application that it wooleing properly and there is no bug. at that the statur of buy will be closed. Reopen! If the bug is persist (Still there) even after the developer has fixed the bug we will change the statut of Reopen' and once again bug goes through defect like a) Duplicate: If the defect it repeated or defect corresponds to Same Concept at that time statur will be "Duplicate" 10) Rejected! - If the developer have proper explanation on that defect then the statut will be Rejected". 1) Deffered: If we are considering any defect into next sprint at that Home win update stateur "Deffered" - so those are the status for updating defect like eyele.

TRIM (Test Responsibillity makerix) :-- TRM is mapping between test issuer or factor and sole - if It agains test strategy document Determine the project type 3) Determine the project requirement-(4) Identify the scope of Application s) Risk involve in project TAM is prepared by Testers. - It captures all requirement proposed by client and deliver at the Conclusion of SDLC. The Main purpose of TRM is to Malidate all requirement are checked with the test cases. - There are two types of TRM they are as follows: forward Muterix I forward requirement tracability mutrix Peverse Materix forward Materix: - forward TRM mapps requirement to test caser / user stories Business requirement. - It make sure that each requirement is applied to application and requirement are tested thoroughly. Reverse TRM/Reverse Matrix:-- Reverse TRM mappes defect and requirement I Business requiremen user story. - The train purpose behinde Reverse Tem is application should be defect free In TRM will mupped the things like Integrater, performance Postablishy, service level etc.

