Test Strategy document :- Company level document -----🡪 PM

TEST METHODOLOGY DOCUMENT :- PROJECT Manager

1. TYPE of test or factor we use in our project on the basis of project type and requirement ------TRM FINILAZIATION
2. IT WILL PREFER THE TEST STRATEGY DOCUMENT .
3. TRM will decided on the basis of project type , req , scope of the project and risk involved in the project .

Different Factors :-

1. Acquire test Strategy document
2. Determine the project type

Off – shelf -🡪 DEV OR TESTING

Maintanance --🡪 MAINTANANCE

Traditional --🡪 DEV + TESTING

Reduce some columns from TRM .

Determine the Project req :-

Requirement or domain of the project

1. Banking
2. Telecom
3. Healthcare
4. Automobiles
5. Insurance

Removing some testing factor’s from TRM

IDENTIFYING THE SCOPE OF THE PROJECT :-

Adding or removing some testing factor’s from Trm

Risk involved in the project :-

Adding or removing some testing factor’s from TRM

Finalize TRM .

STLC -------🡪Software Testing Life cycle

STLC It is a part of SDLC .

1. TEST INITIATION STAGE

Testing starts with test initiation stage during which PM will involve .

Concentrate on Scope of the project , Requirement of the project and Risk involved in the project .

1. Test Plan :-

Team Lead will get involved .

Concentrate on JOB ALLOCATION , Resource allocation and Estimation .

I mean to say that what to do ? who will do ? how to do ? when will do ? and when will finish ?

Test Senerio :-

Test going to find the test senerio’s (positive and Negative )mean’s the functionality we need to test .

Test case Design :- During this Tester create TC to test the Senerio ,

Navigation steps and condition need to be applied to achive the sc .

Test Case Review :-

Check that TC Covering all the req w.r to the US .

Test Case Execution :-

Test Case execute ----🡪Issue --🡪 retest ---🡪 Log defect ---🡪 dev

Dev --🡪 fix ----🡪 re-assign ---🡪 retest ---🡪regression --🡪 Closed -🡪close ---🡪 reopen ---

Procedure will be get followed till defect will not get fixed

Regression Testing

Test Summary Report

1. Tester going to create the summary report after the execution.
2. After creating you will send it to the Team Leader.

No of tc ex pas fail no run defect

Daily 50 20 10 10 30 12

Monthly total

Through mail you will send it to the Team Leader.

Test Closure report :-

Team Lead create the test closure report.

He check whether all the functionality is working fine or not

This is in Report form of Graphs

Dashboard -------🡪 Tracking tool

Report send it to the Project Manager .

Test Plan for V model ->

Input Documents from Project Manager before developing the Test Plan :-

1. Development Document (SRS)
2. TRM

Process :-

1. Team Formation
2. Risk Involve in the project
3. Prepare the test Plan
4. Review of Test Plan

Output :-

1. System output Test Plan

Team Formation :-

It is a Intial stage of Test Plan , Where Team Lead concentrate on :-

1. Job Allocation :- What Type of Job’s are there ?
2. Resource Allocation:- According to resources jobs will get allocated.
3. Estimation
4. Test Environment : If we get the build after upgradation , test env should be present (SIT).

We also check the platfforms Like browser and O.S or h/w

Risk Involve in Project :-

1. Less Test Data :-

Here we perform testing on the bases of our previous experience

1. Lack of Resource :-

Then we assign extra work to the existing resources

1. Lack of Knowledge :-

More trainings and KT session will be conducted

1. Lack of communication b/w dev and tester :-

Maintain the good relation’s with all the team mates to avoid this kind of situations

1. Delay in Delivery :- (Extra time )

We will be doing the Over-time

Prepare Test Plan :-

After completion of Team formation and Risk involve in project , we will concentrate on prepare the test plan

Main components :-

1. Test Plan id :-

Unique id and number which represent the test plan

30 th dec 2021

2130\_flipkart\_Grocery\_Kitchen\_items

1. Iteration (Modules):-

Mean’s requirement of project / modules and description of it . Modules which we need to develop.

1. Test Items :-
2. Test Items are the object on which we have to do the testing .
3. Items which we need to test it will be present inside the Test items .
4. Feature to be test :-

Which type of testing we have to perform and Submodules are working as per customer Requirement

1. Feature not to be test :-

Which type of testing we don’t have to perform

1. Finilaize TRM :-

Already done before the the test plan .

1. Test Pass / Fail criteria :-

Which Test Senerio will get pass and fail we need to attach the Screenshot with it for Proof .

1. One to one test case
2. 1 test case contains multiple steps

If one steps is get failed then completed test case will get failed .

Then scenario will also get failed .

Suspension Criteria :-

Any abnormal Situation occur’s during the Test Execution Like Blocker defect

Test Dileverables :-

Test Environment :-

Required the h/w and s/w for testing .

s/w means tools

Review of Test Plan :-

Project Manager will perform a review .

Team Lead will send the mail to the project manager with test Plan document .

On the basis of below factor’s review will be perform :-

BRS base coverage :-

All the requirements are covered or not .

TRM Base coverage :-

All the testing factor’s are covered or not

Risk base coverage :-

Proper solutions are provided or not

After completion of review it will be declare as System test plan .

Agile Test Plan :-

In agile , basically in my organization sprint is of one month .

Suppose if project start from 1st jan 2022 .

On the first week :-

1. Sprint Plan 1 (Sprint Planning meeting).

Dev , Tester or PO all are involved and Po arrange a grooming session .

If Doubts are occurs then Po clear all the doubts of Dev and tester .

After clearing doubts PO will ask the estimation of every User story .

Test Plan get created by Us .

1. Story Analysis
2. We analysis the US and if get any doubt regarding same then we clear the doubt with PO .
3. Test Case Design

Second week :-

Test Case review :- The test case which we have created it is covering all the req of Us .

Regression Test Case design :-

We write the test case on basis newly added requirement .

Regression Test case review :- Covering all the req or not .

Third week :-

Sanity testing

2.Test Case Execution (System and Function testing).

3.Defect log -🡪 Fix-🡪 assign-🡪 retest --🡪 Regression -🡪Close-🡪 reopen -🡪 dev assign

4. Regression (Start point to End point).

5. Sprint review meeting

Forth week :-

UAT

Test Summary report

Defect Report

Test Closure report . 5 tester

End of the Sprint –

Sprint reterospective meeting .

Sprit Plan 2(if there is time)

Test dilevarables as per testing :-

Test scenarios , Test cases , defect report , test summary report , test closure report , Test data

Test Policy ---🡪 Test Strategy ---🡪 Test Methodology --🡪 TRM Final --🡪 Test Plan ---🡪 Team Formation ---🡪 Risk and Solution ---🡪 Prepare test Plan --🡪 Review (Pm )-🡪 System outpour test plan --🡪 Test scenario --🡪 test case ---🡪 review ---🡪 test case execution --🡪 defect log ----🡪 Regression ---🡪 Uat ---🡪 Production

Test Cases and Test Scenario :-

SRS / Sprint Backlog -----🡪 User Stories -----🡪 Test Scenario -----🡪Test Case Design

1 Sprint backlog can consists Mutiple Us

1 user story can consists multiple Scenario’s

1 Scenario can consists multiple Test cases

1 Scenario can consists multiple us (wrong)

1 Test case consists of multiple Scenario (wrong)

Req gathering ---🡪 Sprint Backlog --🡪 User stories --🡪 Grooming Session ---🡪 Tester

1. Analysis 🡪 it will analyze the requirement or understand the requirement .
2. Test Scenario :- It is a functionality which we need to test .

What to test ?

Verify the Login page with correct user id and Password

Verify the Login page with incorrect user id and correct Password .

Verify that user able to do the payment from HDFC credit card .

Verify that user not able to do the payment by incorrect OTP .

Test Case Design :- How to Test ?

1. Test case Design consist Navigation steps to Achieve the Scenario .
2. Condition to be applied to test that Scenario .

User story ---🡪 Input , process and output .

Scenario -🡪 Different ways to achieve that Requirement or us .

You have to buy the product from a flipkart.

1. Product ----🡪Buy ---🡪 Payment
2. Credit card
3. Debit card
4. Paytm
5. Upi
6. Net banking
7. Cash on delivery

Verify that user enter incorrect credit card number then user not able to do the payment .

TRACEBILITY MATRIX :-

Tracebility Matrix called the mapping between Requirement , Defect and the Test cases .

We can perform it in Exceel sheet as well as in HPLM .

Tracebility Matrix is of two types :-

1. Forward Tracebility :-

During the Test case Design , Mapping a Test case with the requirement is known as Forward Tracebility Matrix .

US001 – VALID THEPAYMENT PAGE (Business req).

Why we perform forward Tracebility matrix ?

1. We can not miss any kind of requirement during the T.C.D
2. Req change ----Test case update ----Test case find out ----That’s why we perform tracebility matrix in agile

Backward Tracebility matrix :-

In a Backward Tracebility matrix we perform a mapping between

Defect and Requirement .

In a Exceel Sheet

In a HPLM .

Defect 001 ------🡪 SIT

Defect 001 -----🡪 Regression -----🡪 requirement --🡪 001---🡪 failed test cases ----fail ----🡪 perform vishal