Functionality: Core behavious of Application

Client / Customer: Given Business Requirement/ client Requirement/customer Requirement.

* In maintainance Project the change is called as Change Request or RFC (Request For change)

* Scratch: Application development from Zeeo Level.

* Business Analyst: Person who collects requirement from Client of he is nonTechnical person.

Client → BA → BRS/BRD → SRS → Technical Team

* BRS/BRD: Business Requirement specification/
document.

- This document describes customer
requirements to be developed.

- It's a bridge between technical people
and client.

- It consist High Level Business Language.

- This document is prepared By BA.

SRS/FRS/FRD: Software Requirement specification
Functional Requirement Specification
Functional Requirement Document
- This document is prepared By BA
- It consists Functional Requirement to be
developed and system Requirements to be
used.
*What SRS Consist of?
1) Functional Requirements
2) Functional Flow Diagrams
3) Use cases
4> Snap Shots
5> System Requirements.
Use cases: Defines Functionality in terms of Input, output & process.

eg. Login: IIP: Uname Process: Wick Login
O/P: Login Success/ Unsuccess.

SRS Format: doc on	PdF
BRS	SRS
. What to develop	How to Develop.
- · · · · · · · · · · · · · · · · · · ·	FRS: Functional Reg Specif
	* 2 inputs
Addition of two	* + operator
·Numbers	* 1 Output
	NFRS: Non-Functional RS.
	+Blue color in screen
7 6.1 1	* Run on Windows & Linux
April 1997	* Addition within 0.5 sec.
the second secon	
	The state of the s

SDLC: SOFtwaze Development hifecycle.
LCD [hifecycle Development] LCT [Lifecycle Testing
Team Size: LLD [No. of Developers]
LCT [No. of Testers]
Normal Project Ratio: 3 Dec
1 T 13 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
No of Testers: Manual Testers: 5 &
Total: 7 Automation Testers: 2
Size: No. OF TENTERS X 3 No. Of Dev.
7×3 = 21 + 1BA = 22-24. 8×3 = 24 Around.

How to solve the issue or to whom you will interact or Have you ever interacted with client?
As a Testee, I am going to Follow hierarry. - Test Team Members
- Test Team head - Development Team
- Business Analyst
with the permission of project Manager, I am going to interact withe customer or
with dient.

<u>Duration</u> / Release / Sprint:
1) Waterfall: 3 Months.
The second of th
2> V-Model: 3 Months.
a) A v. Mathadala 1 Mantha / 15 da a
3) Agile Methodology: 1 Months. / 15 days.
Productivity OF T.E:
Test case Design : 15-20 (per day)
Test case execution: 20-25 (per day).

Which Model to choose For software development?
Who is going to decide which Model to Follow?

- 1. When the client is new or having no knowledge of process model then organization can decide which model to be used.
- 2. When client is having its own technical team then organization of client will mutually decide which model to refer.

There are 3 Factors using that organization is going to decide how many requirements we need for specific release / sprint:

- i) Complexity of Requirements [More complex requirement then less will be taken]
- 2) <u>knowledge</u>: [Previous experience of same domain or new domain research]
- 3) Efforts: Time ducation for Dev + Test.

This process is called estimation process.

Who is involved in estimation Process?

3 peesons: Business Analyst [BA]

Development Lead

Testing Lead

* One Model will be followed throughout development of One Project.

* Actors In the Agile

Developers + Testers Team = Scrum Team

V Model	Agile Model
Client	Stakeholders
BA	Product Owner
Project Manager	Scrum Master
Release	Sprint
SRS	User Stories
Release Duration: 3	1 Release: 1 Month
Months	Sprint 1 + Sprint 2
A STATE OF A COURSE OF THE PARTY	[15 Doys] [15 Days]
	1 1

JIRA: Automation tool for project Management and defect tracking.

Backlog: Requirements.

Sprint: Predefined interval or time frame in which the work has to be completed and make it ready for review or ready for production deployment.

2 Weeks: I Week Development + I Week Testing

Architecture of Agile: Working of Agile Tell the Requirement Client Stakeholder: Product Owner: collect the Requirement BA Overall Require. Prepared By Po of whole Project -> Product Backlog (JIRA is used) Estimation --- > 1 Sprintwise Requir. After this, Po wi → Sprint Backlog Specific Require. give it to tester Detail Description of requirement and Developers User Stories Test case Design Test case execution

Sprint Backlog. - Product Owner, Testing & Development Lead are involved in this Meeting
- Product Owner, Testing & Development head are involved in this Meeting
head are involved in this Meeting
ries :- Consists of detailed description
of each and every requirement
which is being mentioned in
which is being mentioned in
Sprint Backlog.
ries Analysis: Tester and Developer.

4	Meetings in the Agile: Ceremonies in Agile. Events in Agile.
co.b	" C ' ' - I - I - C MOOHOO
	2) Scrum Meeting / Daily Status Meeting / Stand-up
17 . /	3) Sprint Review Meeting
	4> Retrospective Meeting
	Ty Remode the first and there were

0	Sprint Planning Meeting
	- During this meeting, planning of sprint is done
	- First meeting of the sprint which will happen on
	the first day of sprint.
	Purpose: Discussion and plan of requirement and
	completion, Test and development lead
	will do resource and Job allocation.
	Product Owner (PO) will explain user stories.
Para la	Involvement: Testing team + Development team + Scrum Master + Product Owner.
74 - 1	Frequence : Once per sprint
	Time: 2-4 hours. (Day 1)

Day 2: User stories analysis by Developers & testers

[2.2 Days]

- After this testers will start identifying test

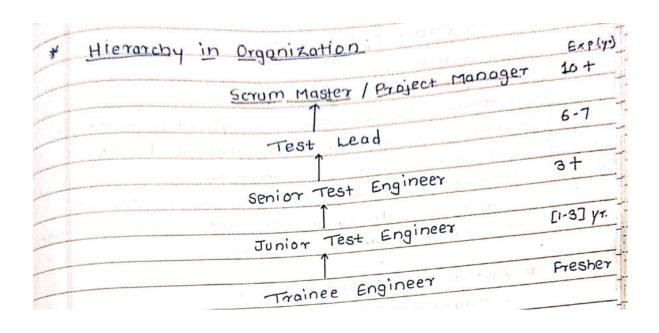
Scenarios and start test case design.

2 Week Sprint: 1 Week - User stories Analysis.

Test scenarios identification Test case Design & Revision Revision Test case Design & Revision Revision Test case Design & Revision Test case Design & Revision Revision Test case Design & Rev

(D)	Scrum Mani /- : Listandillo Meetin
0	Scrum Meeting / Daily Status Meeting / Stand-up Meeting
	purpose - Every day testing team & development
	team will update to scrum Master.
whatd	10 the team 1 - 100
what	explantate team 2> whatever we've performed yesters
Any	COUCH I A I I I I I I I I I I I I I I I I I
10	in requirements/ Test case & scenarios
	Frequency - Everyday / Daily.
25	Time - 9:30 am - 10:15 am. [Regulation
100	Touchamant - Tosting team + Development
	+ Scrum Master + Product Owner.
100	SECTION OF SECTION OF SECTION OF SECTION OF
	Scrum Master The person who is going to
	Keep track of the Schedule
	plan of sprint
	- Scrum Master is the chair Person for this
	particular meeting
	Political
(1)	Davieus Meeting
(3)	<u>Sprint</u> <u>Review Meeting</u>
	- In this particular meeting, the task we have
	completed in this sprint that will be reviewed
	Completed III 1110
	by stakeholder.
10 10	- Frequency - Once per sprint
14.	0 - 4 00075
13.20	Dyration - Development Involvement - Testing team + Development team + Scrum Master + Stakeholder.
	team + Scrum Master I signed

(4)	Retrospective Meeting / Improvement Meeting
	- At the end of the sprint Chappens after the
-what w	Purpose: To discuss openly what went well sent well during the sprint and what didn't during the sprint
- what	did not go to that the team can togetherly find
	on items goals. Here the team can discuss internal
	processes as well.
	Frequency: Once per sprint Duration: 2-4 hours.
	Involvement: Scrum Master + Test team + Dev. Te



	in this of Test Engineer:
*	Roles and Responsibities of Test Engineer:
	1) SRS Analysis 27 Creating rest Data
-	3) Designing Test cases 4) Creation. 5) Execution of Test cases 6) Tracebility Marrix. 5) Execution of Test cases 6) Tracebility Marrix.
-	5) Execution of Test cases 6) Tracking till closure. 7) Defect logging freporting f tracking till closure.
	7) Defect logging properties.
	87 client Interaction.
	Defect log: Functionality / code issues are logged through tools: JIRA & HPLM.
	i ment related issue through
	Defect Report: Environment

	What challenges and difficulties you have faced
*	What challenges and difficulties ? during 3 years of experience?
The state of the s	and different chausing
	As a tester,
	As a tester, there are arreading in organization:
STORES OF	

*	STLL process related challenges:
	- himited time available for testing hate
	engagement of testing team.
-	Test environment issues / Build installation
_	Delays in defect fixing/improper Fixing of
	defects resulting in impacts
_	Communication issues like me unresolved
	queries, delay in response, communication
	hurdles with development team.
*	Application related challenges:
1	- Changing requirements.
	- Non-availability of right set of test data
-	- Build quality issues.

*	What will be your daily Routine?
- 0.	The second secon
9:00	- Read emails for any important issue or
	announcement.
9:15	- Go through the allocated tasks by the team
3, 2001	Lead on email or x1s sheet or whatever tool
	used for communication.
9:30	- Scrum Meeting:
10:15	- Plan for test cases or test execution for the d
	a secution for the a

- 0	nce au the designed test cases are executed.
_ A	III the raised defects are fixed by developers t
	in referting the defect is not occurring again
+	then we "lose" the defect of we can say
	application is Stable.
	Tester will do "sign up off" for closing testic
.v.	Different Caving agents to Testing
7	Different Environments In Testing

Client	
885	
1	(Developers) - End User
SRS	[Vuit test] [T.E] dient - Live.
4	DIT - SIT - VAT - Production.
Coding .	
	Build
17	DIT: Development Independent Testing
2)	SIT: Sustem Integration Testing
3	UAT: User Acceptance Teoting / Customer Accep
	Testing
4>	Prod: Production.
	SIT: Enitial Build: - Bapic or First Build
	Enitial Build: - Basic or Hirst build
	Sonity Testing, 27 Functional, 32 Regression

UAT - SIT & UAT Teoting teams will be different
- In UAT, services teotees will be involved,
- Time will be less (3-4 hours). For var

Teoting & teot team will reless in Size.
- SIT and teot cases will be executed by

UAT team.
- Focus on New Change/ Functional testing

4	eeroz: Mistakes in the code. (WBT).
	- Developees will find errors.
	- DIT environment.
	Defect: - SIT environment.
	- Found by SIT testers.
	- Defect Report - Mail CEnvironment)
	- Defect log - Tool through . (Functional
	Regression) Retest.
	Bug :- If defect is accepted by developers
	then it is called as Bug

Defect loakage: - Defects wissed by SIT of formal

by UAT team.

- UAT team will inform defects to developers!

Developers will fix it. Their UAT team

retest it then it will go to production.

- These defects will be only inform to

SIT but SIT will not be part of this

to defect fixing.

Production issue: The defects found at production Missed defect: environment. These defects are unissed by DIT, SIT & UAT.

Hot fix: Production issue fixing by developers, CCB.

- When any production issue occur then client is going to take penalty from organization.

Impact Analysis:

- When any production oissue comes, there will be one team: CCB (change control Board).

CCB > BA, Development lead, Test lead.

- CCB Team will do first Impact Analysis

- Impact analysis is process of analysing product issue for criticality, priority, severity etc for impact of issue on the client's Business.

Escalation: Kind of notice | Memo/ Narning

	to do
*	Do we write test cases for sanity testing?
1	- No. We are going to executed test cases
	of previous release test cases
	deployed in previous releases.

* When you log the defect of till the time you si

Dev. fix the bug, what T.E will do?

- Execute other independent test cases.

For Blocker defect / Show stopper defect:

- we (T.E) can not do Further testing

How many times we performe Regression Testing?

- In each testing life cycle

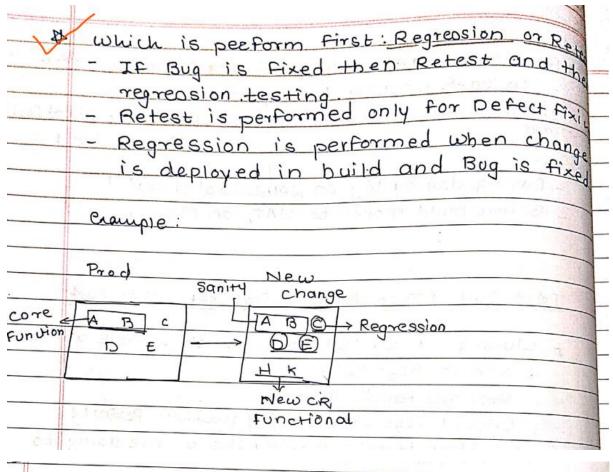
2: For every release / sprint: 1: On consolidated Build

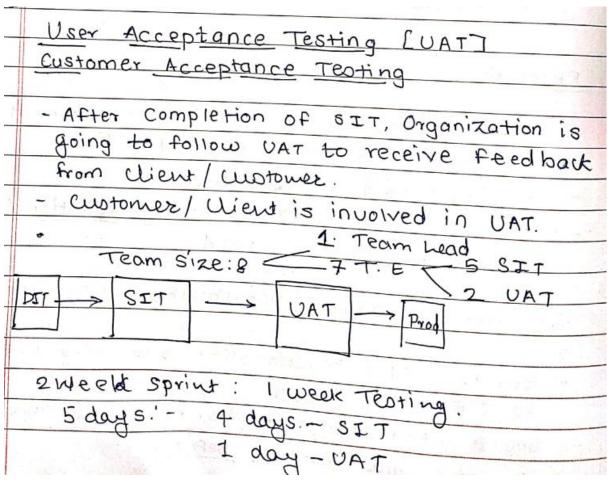
Times.

2. Master Build

- During day by day on consolidated build.

- Before Build moves to UAT, on Master Build.





_	There are two types of	2. Beta testing (B)
	1. Alpha Testing (d)	The Beta Teating CP)
/		0 0 1
V	- Applicable for application.	- Applicable for Products.
	i.e Service Based company	i.e. for product based comp.
	- Performed within organization.	- Performed by End Users.
	in a constant in the first of the	at their own place of Pc's
	- It is done with the presence	- Without Dex of testers
	of Dev. f testers.	w 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	- It is performed in controlled	- It is performed in
	environment.	un controlle environment.
	_	Market Commence

10	
ho e	- Due Defect due to which we can't proceed
	Testing.
	- Teoting Hauts.
	eg. GMAIL hogin not working.

*	Test · Case Review
	there will be
	- AFter Toot case Design phase, there will be
	Review of test cases of then we will prepase
	Tracebility Matrix.
	Different types of Test case Review:
	1) Seif Review 2) Peer Review
	3) Internal Review 4> External Review

	Reviewez will Review for:
	i) whether au the requirements are covered or 1
	2) Whatever Scenarios we have written, Have
	we covered Teot cases for it?
	3) Spelling Mistakes
	4) of there are any steps missing in Test (
	5) Priority of the Test. case.
A)	Which kind of Review happens/followed in your organization?
→	Juternal type of Review is followed in my organization.

1	self Review
	Test engineer Himself/herself is going to review
	his/her own Test cases.
	- Description of the Lorent Community Communit
27	PER Review [Testing Team]
/	Testing Team members will review Test-cases.
35	Internal Review [Test +eam + Der Team + BA]
-	Dage by Testing Team + Dev. Team + 13 A of Saint
	organization or it happens within organization.
1	External Review / Walkthrough [Wient]
4.7	- Client will Review the Test case of Test team +
	an will alon be present.
	Dresent / give demo of 1000
	what ever he have written to the Went.
	what ever he bave who comments.
	- Client may pass Review comments. - Client may pass Review comments. - This is also called as "Walkthrough"
	This is also called as Marketine