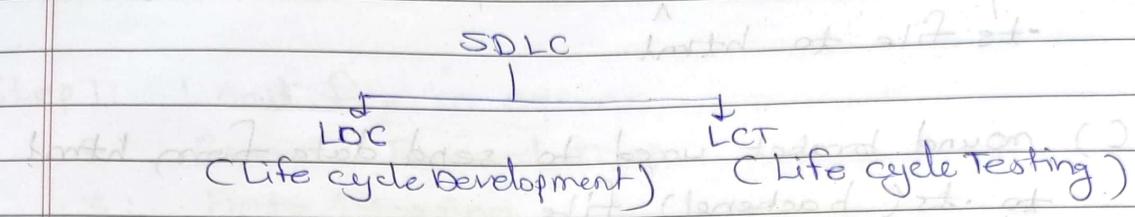


## Software Testing

\* SDLC



For normal project - 3 developers & 1 tester

For critical project - 2 developers & 1 tester

For NASA - 1 scientist : 7 tester.

### \* Stages of SDLC -

- 1) Information Gathering (BA gathers the information from client & creates BRS)
- 2) Analysis (BA converts BRS data into SRS)
- 3) Design (Design team/ UI/UX team creates LLD & HLD)
- 4) Coding / Development (Developer) & mockup
- 5) Testing (Tester)
- 6) Maintenance

#### 1) Information Gathering (BRS)

- Information is collected from client for developing software. This doc is called as BRS (Business Requirement Specification)
- BRS is developed by business Analyst (BA).

#### 2) Analysis (SRS)

- This doc is prepared w.r.t. BRS.
- This doc is also called as SRS (Software Requirements Specification)
- This doc is technical form of requirement.
- This is also prepared by Business Analyst (BA).

#### Contents of SRS =>

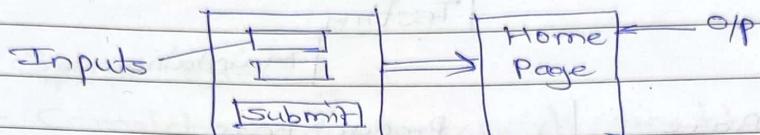
- a) Functional requirements

b) Functional flow diagram -

e.g.



c) Use cases



d) Snapshots.

3) Design =>

- Design team prepares mock-up of appl? wrt. SRS doc.

4) Coding =>

- Developer is involved
- Developer writes a code for appl? wrt. SRS doc.

5) Testing =>

A) White Box Testing =>

- Done by developer
- He checks completeness & correctness of program wrt. requirement.
- Here he checks only positive scenario.

B) Black Box testing =>

- Done by tester (we)
- Here we check completeness & correctness of functionality of application wrt. requirement.
- Here we check positive & negative scenarios.

C) Gray Box Testing =>

- Black box tester having knowledge of coding.

## 1) Waterfall Model -

BRS

SRS

Design

Dev

Testing

Maintenance

Service Base

↓  
Client Requirements

Product Base

↓  
Product

→ own requirement

## 2) Agile Model - (Incremental approach)

(i) Scrum

(ii) XP

(iii) Lean

(iv) Kanban

Flavours

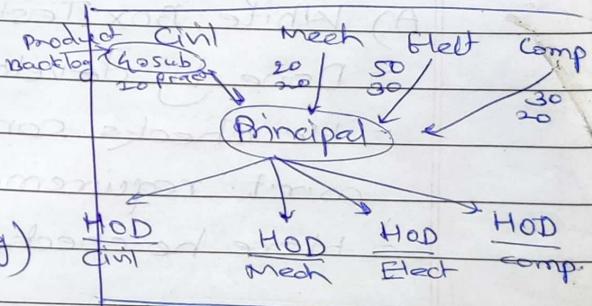
Agile architecture  
Elements → (Client)① Stakeholder → Having set of  
Bunch of requirementsREF  
M + B  
G

(PO) Product Owner (Responsible person)

Product Backlog (Actual Requirements)

↓ Sprint Planning Meeting

Sprint Backlog



(Planning)

(US Walkthrough meeting)

Activities:  
① SM explains all functionalities by using mockup

② SM explains all US &amp; assign US to dev &amp; test

③ SM takes SP from dev &amp; test

User Stories

[ SPARO1 - Summary ]

- 2) Acceptance criteria
- 3) Assignee → developer
- 4) Test Engineer → Tester
- 5) Story points (Fibonacci's series) 0, 1, 2, 3, 5, 8, 13
- 6) Reporter (Reporter is who creates US)

R	E	F
Recharge	Electricity	Fund
M	T	B
Movie ticket	Train ticket	Bus ticket

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

\* Product owner  $\Rightarrow$  collects info requirement for his project from stakeholder

\* What is mean by product backlog?

- Complete requirement of project is known as product backlog

\* Sprint Backlog  $\Rightarrow$

- Complete requirements of for the particular sprint is known as sprint backlog.

\* Sprint Planning meeting - (2 hrs meeting)

1) Product owner

2) Scrum Master  $\Rightarrow$  (SM only notes what is happening in meeting)

3) Development lead

4) Testing lead

To finalize sprint backlog

Purpose - To decide requirement for sprint

\* Which things will be considered

$\Rightarrow$  1) Client priority

2) Complexity of requirement (Efforts required)

- Dev lead

- Test lead

- Efforts are in hrs.

3) Availability of Resources

\* JIRA  $\Rightarrow$  Story, bug, epic, task

Sprint 1 - Day 1 - US go through

Sprint 2 - Day 2 - Grooming meeting (Hosted by SM to

(2 hrs meeting))

clear doubts for  
developers & testers)

After meeting developers start working on US

15min - Every day we have daily stand up meeting

- ⑥ Status call
- ⑥ Scrum call
- ⑥ Daily Huddle

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

27/10/2021

User Stories

(User Stories walkthrough meeting)

day 1: Us go through & clarifying doubts from US.

day 2: Grooming meeting  
(30m) -

(15min) Daily scrum call -  
① what you accomplished yesterday,  
② what you are going to do today,  
③ Any impediments / blockers?

Remaining of day 2 : Test cases creation

day 3 : Test cases creation

day 4 : Test cases creation

Scenarios on

Water Bottle, Pen, ATM Machine

\* Test cases can be written in Jira, Excel, Azure

Fields included in Excel:-

SR#	User Story	Module	Test cases	Test steps	Test Data	Expected Result	Test type
1	KTOC-1	Login	To verify user is on login page	① Enter URL & app? ② Verify user is on login page	URL	App should open User should be able to see login page & app?	OT
2	KTOC-1	Login	To verify input fields User ID & Password	① Enter URL & app? ② Verify User ID & Password text box	URL	① App should open ② User should be able to see User ID & Password	UT
3	KTOC-1	Login	To verify login button below input fields	① Enter URL & app? ② Verify User ID & Password text box ③ Verify login button			U2

MON  
1 NOV 2021

What to test? - Test scenarios

How to test? - Test cases

- ① UI    ② Functionality    ③ Non functionality

CLASSMATE

Date \_\_\_\_\_

Page \_\_\_\_\_

IQ \* How much US you have in every sprint? (20-25)

→ It depends on sprint backlogs & availability of resources.

IQ \* How much TC you will write for <sup>any</sup> US? (approx. 100-120)

→ It depends on acceptance criteria of US.

TC on  
Phonepe → fund transfer functionality.

Acc number, MMID, UPI, mobile num, IFSC, Aco Holder name

Qs. Test cases on chair, SDLC, US walkthrough, Diff. Waterfall & agile, Introduce yourself, waterfall - procedure oriented, value based priority based, Hot fix, CR, Agile ceremony, sprint planning meeting, Diff bet. white box, black box, gray box, fields in excel, correctness & completeness diff.

Mon 1 Nov 2021

Agile ceremony -

1) Sprint planning

↳ PO, Test lead, Dev lead, Scrum

2) User story walkthrough

↳ SM, Dev team, test team

3) Daily stand up

↳ S

Day 2

Day 3

{ Test cases creation

Day 4

Day 5 - Test cases review

Day 6 - Test execution

~~Stakeholder - BA~~

~~PO - Main Project Manager~~

URL, Test Data provided by backend team

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

IQ

\* How the test cases should be?

- ⇒ 1) TC should be easy to understand
- 2) TC must cover acceptance criteria of us.
- 3) Must check priority of test case.

Teams, slack, zoom, webox ⇒ For uploading fit share filter

Agile theory says there are only three roles

- 1) PO
- 2) SM
- 3) Scrum team

IQ \* Roles & Responsibilities

- ⇒ 1) Requirement Analysis
- 2) Test case preparation
- 3) Test case review

IQ \* Web application testing

Application →

Backend team gives  
URL of web app!

Chrome →

for e.g. www.facebook.com

live

we are  
end users

In our company the URL format is like -

e.g. 110.12.192.18/dev.facebook.com

✓ 110.29.119.20/test.facebook.com

110.20.109.15/demo.facebook.com

we have to  
copy &  
paste into  
browser

(Environments)

110.29.119.20/qa.facebook.com

Application should be tested or not from our side?  
For that we have to check some criterias ⇒

We don't write test cases for Smoke testing.

classmate

Smoke testing = build verification testing

Date \_\_\_\_\_

Page \_\_\_\_\_

Tue  
26th  
Nov 2021

That criteria is called as "Smoke Testing".

### \* Smoke testing -

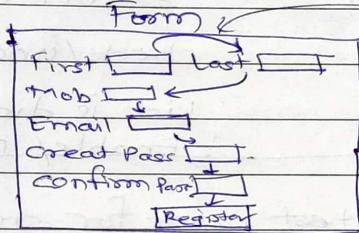
#### 1) \* Why Smoke testing is required ?

- ⇒ - To decide testing has to be done or not (continued or not)
- This is first testing on appl? by us.

Testing Includes -

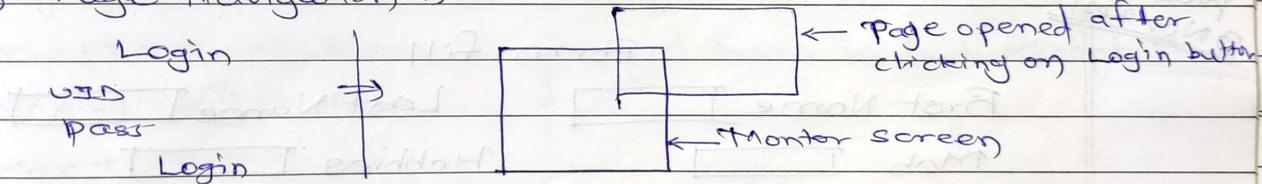
- 1) Basic core functionalities
- 2) Link Navigation
- 3) Page Navigation
- 4) Tab Navigation

#### ① Tab Navigation ⇒



Pressing Tab button  
Should be  
Left to right &  
top to bottom

#### 2) Page Navigation ⇒



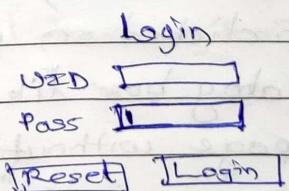
#### 3) Link Navigation ⇒

- If user clicks on any link on the page then it should be navigated to the next page or open new page.

#### 4) Basic core functionalities ⇒ Checks the functions of buttons & url

### \* A Functional testing -

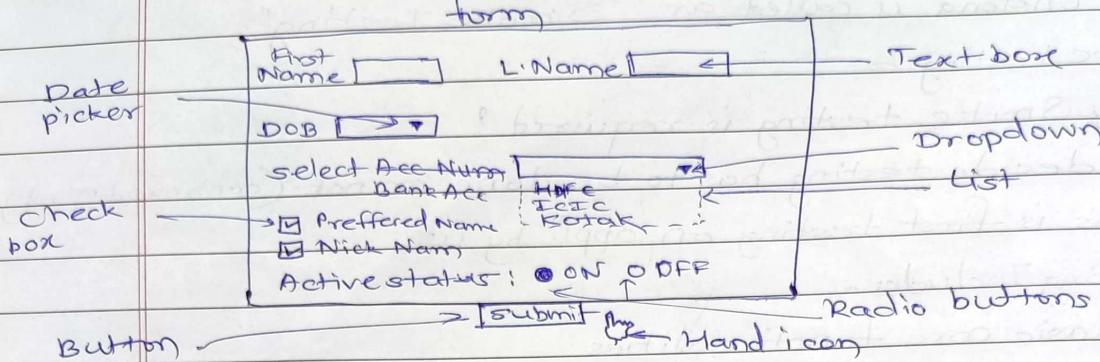
#### ① Behavioural coverage ⇒



for eg.

In behavioural coverage, if user clicks on UID text box then that text box should be focused, & if he clicks on outside that text box then that text box should be unfocused.

## form



So in behavioural coverage, we check behaviour of object

Object	Property / Behaviour
Text box	Focus/ unfocus
Radio button	ON/OFF (We can't select multiple radio buttons)
checkbox	check/ uncheck (We can select multiple checkboxes)
Dropdown	List is displayed or not
Button	Enable/ Disable & Hand icon

IQ \* Write down the test cases for smoke testing of mobile

Wed

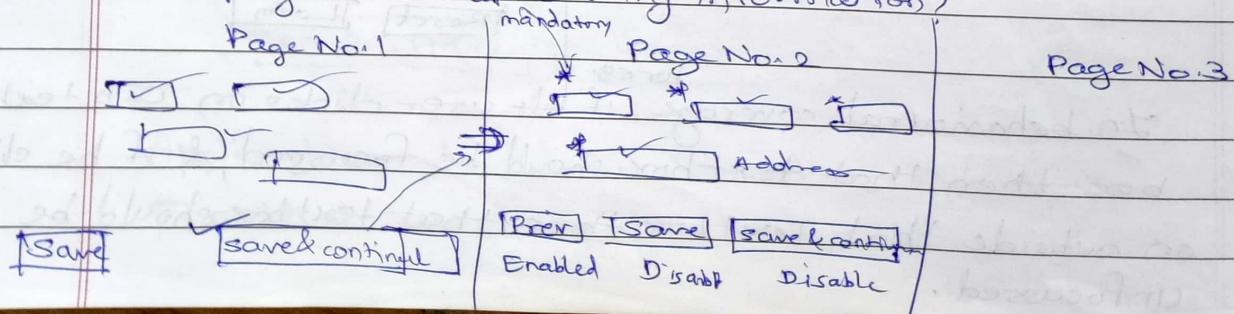
6 NOV 2021

## Form fill

First Name	Last Name
Mob	Hobbies
Email	Edu. qualification
Address	
<input type="button" value="Previous"/> <input type="button" value="Save"/> <input type="button" value="Save &amp; continue"/>	

- If clicked on previous button without clicking on save button after filling details.

- If clicked on previous button there should be one popup/dialog box like "Do you really want to go previous page without saving information?"

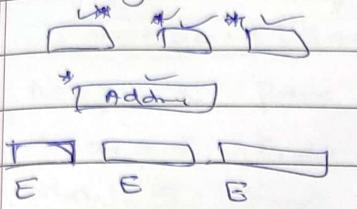


BVA - Boundary Value Analysis  
ECP - Equivalence Class Partition.  
space is also special character.

classmate

Date \_\_\_\_\_  
Page \_\_\_\_\_

Page No. 2.



## ② Input Domain coverage -

- Here we check size & datatype of input  
(BVA & ECP)

BVA is used to check size of input

ECP is used to check datatype of input.

Eg.

First Name

(2 - 50) Alphabets

BVA

Min = 2  $\Rightarrow$  Pass

Max = 50  $\Rightarrow$  Pass

Min - 1 = 1  $\Rightarrow$  Fail

Min + 1 = 3  $\Rightarrow$  Pass

Max - 1 = 49  $\Rightarrow$  Pass

Max + 1 = 51  $\Rightarrow$  Fail

ECP

A - Z  $\Rightarrow$  Pass (Upper Case)

a - z  $\Rightarrow$  Pass (Lower Case)

0 - 9  $\Rightarrow$  Fail

Special chara  $\Rightarrow$  Fail except Space

Eg. 2nd

Mobile Num

BVA

Min = 10  $\Rightarrow$  Pass

Max = 10  $\Rightarrow$  Pass

Min - 1 = 9  $\Rightarrow$  Fail

Min + 1 = 11  $\Rightarrow$  Fail

Max - 1 = 9  $\Rightarrow$  Fail

Max + 1 = 11  $\Rightarrow$  Fail

ECP

A - Z  $\Rightarrow$  Fail

a - z  $\Rightarrow$  Fail

0 - 9  $\Rightarrow$  Pass

special chara.  $\Rightarrow$  Fail including space

Eg. Pincode

Eg. Password  $\Rightarrow$  Requirement

[8 - 15 chara]

[Alphanumeric text & must have  
at least one special chara.]

eg. Pincode  
(Postal code)  
BVA

Min = 6  $\Rightarrow$  Pass

Max = 6  $\Rightarrow$  Pass

Min - 1 = 5  $\Rightarrow$  Fail

Min + 1 = 7  $\Rightarrow$  Fail

Max - 1 = 5  $\Rightarrow$  Fail

Max + 1 = 7  $\Rightarrow$  Fail

ECP

A-Z  $\Rightarrow$  Fail

a-z  $\Rightarrow$  Fail

0-9  $\Rightarrow$  Pass

special char  $\Rightarrow$  Fail

eg. Password

Requirement: [8-15 characters]

[Alphanumeric text box & must have at least one special char.]

BVA

Min char = 8  $\Rightarrow$  pass

Max = 15 pass P-O

Min - 1 = 7  $\Rightarrow$  fail

Min + 1 = 9  $\Rightarrow$  pass

Max - 1 = 14  $\Rightarrow$  Pass

Max + 1 = 16  $\Rightarrow$  fail

Blank  $\Rightarrow$  fail

ECP

A-Z  $\Rightarrow$  Pass, 0-9  $\Rightarrow$  Pass

a-z  $\Rightarrow$  Pass, special char  $\Rightarrow$  Pass

- Mon 8 Nov 2021*
- \* Best approach to test the textbox if there are maximum 250 allowed.
  - $\Rightarrow$  Just write ABCDAB
  - $\Rightarrow$  Then copy these 5 charr. & paste in same textbox

eg.

New English School

Class strength = Roll No. 1 to 60

BVA  $\Rightarrow$  Min = 1 Pass

Max = 2 Pass

Min - 1 = 0 Pass

Min + 1 = 2 Pass

Max - 1 = 1 Pass

Max + 1 = 3 Fail

BVA	ECP
Min = 1 → Pass	0 - 3 → Pass
Max = 3 → Pass	4 → Fail
Min-1 = 0 → Fail	Min = 4
Max+1 = 4 → Fail	Min-1 = 2
Max+1 = 2 → Pass	Max+1 = 9

$$P = 500 \rightarrow 10\% \quad 500 - 1500 \Rightarrow 15\%$$

$$(500 - 2500) \Rightarrow 30\%$$

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

Pincode	
Min	Max
100000	999999
Min = 6 → Pass	
Max = 6 → Pass	
Min-1 = 5 → Fail	
Max+1 = 7 → Fail	
Max-1 = 5 → Fail	
Max+1 = 7 → Fail	

Roll No.

152	→ strength is of 2 digit only where not talking about value, we are talking about size
Min = 1 → Pass	
Max = 2 → Pass	
Min-1 = 0 → Fail	
Min+1 = 2 → Pass	
Max-1 = 1 → Pass	
Max+1 = 3 → fail	

Percentage textbox ⇒ should be from 1-100%  
& No decimals.

BVA
Min = 1 ⇒ Pass
Max = 3 ⇒ Pass
Min-1 = 0 ⇒ Fail
Max+1 = 2 ⇒ Pass
Max-1 = 2 ⇒ Pass
Max+1 = 4 ⇒ Fail

ECP
0 - 9 ⇒ Pass

Value
Min = 0 ⇒ error
Max+1 = 101 ⇒ error
Min = 1 ⇒ Pass
Max = 100 ⇒ Pass
Min+1 = 2 ⇒ Pass
Max-1 = 99 ⇒ Pass

Percentage textbox ⇒ should be from 40-100  
& upto 2 decimals

BVA
Min = 2 Pass
Max = 6 Pass
Min-1 = 1 Pass
Max+1 = 3 Pass
Max-1 = 5 Pass
Max+1 = 7 fail

ECP
0 - 9 ⇒ Pass

Value
45.123 ⇒ Not accepted
45.12 ⇒ Accepted

- Q1: \* Test Cases techniques (What are different test cases techniques)  
 → Boundary Value Analysis  
 ⇒ ECP  
 ⇒ Error Handling

9 Nov 2021

## (3) Backend coverage -

F. Name	L. Name
Email	
Mob	
Create Pass	
Confirm Pass	
<b>Register</b>	

Your Registration is successful

API response

After clicking  
on Register  
trigger

Database

F. Name, L. Name, Mob, Pass  
sent to Database

Login	
Email	
Pass	
<b>Login</b>	

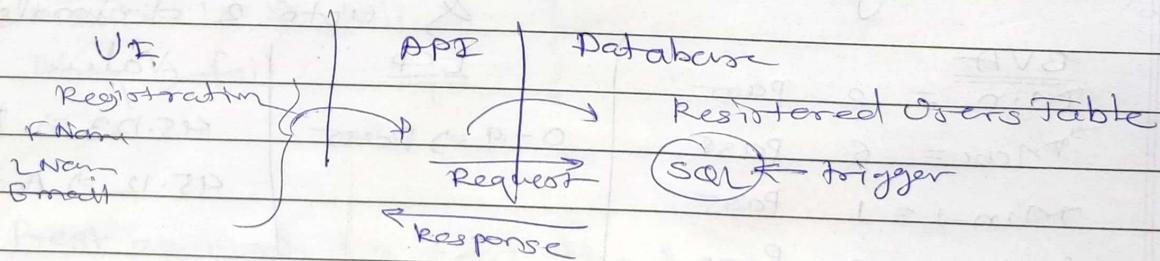
API trigger login (Email, Pass)

Will go to the next page  
(allowed to the website)

Response [User is valid]

## Steps :

- ① Right click on fb page → click on inspect
- ② Go to network tab



Ques. What we will check in backend coverage?

⇒ Whatever we filled information in UI, is this information correctly saved in the database or not by firing SQL query.

we also check the correct info is displaying in frontend from backend. (for eg. account balance)

Stress testing  $\Rightarrow$  Checking system specification  
Load testing  $\Rightarrow$  applying load on API

CLASSMATE

Date \_\_\_\_\_

Page \_\_\_\_\_

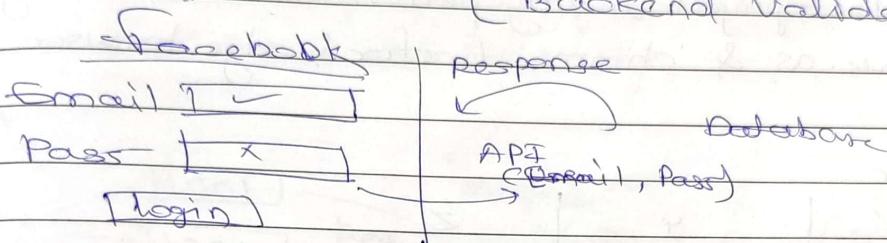
Ques Who creates database?

$\rightarrow$  Backend team creates database.

#### ④ Error Handling coverage -

Here we validate error messages are displaying or not.

[Backend validation]



Error message = User is not valid

[Front End validation]

Roll No. 151 (1 - 51)

Immediately shows the error message on Roll No. is not valid.

#### ⑤ Arithmetic coverage -

Eg. Flipkart

Mobile → Samsung

- 10000 - Qty ②

Total = 20000 ✓ Auto calculated

Eg.

List of documents

SSS

HSC

BE

ME

Submitted

$\Rightarrow$  02

10<sup>th</sup> Nov 2021

### Non-functional

#### ① Compatibility Testing -

$\Rightarrow$  Client gives the information of browser where we need to test

- Browser compatibility testing

(We will check that our app is working on different browsers like chrome, Firefox, Edge etc.)

- We are checking S/W performance for different platforms  
is nothing but the compatibility testing.

platforms - chrome, firefox, edge or classmate  
 \* common problems in compatibility testing  
 - scroll bars, drop down values in different values

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

- In compatibility testing we also check if working of software on different OS & different version of browser platforms.

Q. \* On which OS & browsers you performed compatibility testing?  
 ⇒ In my last project I only performed this testing on windows OS & chrome, firefox & edge browsers.

End user environment	x	y	z
appln. → facebook	facebook	facebook	facebook ∈ appln
① chrome	firefox	edge	∈ Browsers
② windows	Linux	Ubuntu	∈ OS
③ chrome version	firefox version	edge version	∈ Browser version

## ② Performance testing -

(Load testing & stress testing comes under the performance testing)  
 SSC Result date:- 01 Jun 2021

10 Nov 2021	01 Jun 2021	URL
Checking SSC Result	Checking SSC result	
Users = Less	Users = High	
① API will be called	more than (10 lacs) APIs will be called	

* 1 person gives instructions to	1000 persons gives instructions to
1 Person	1 Person

- load will be increased.  
 - Here we check performance of appln for certain users.  
 - Tool used to perform performance testing  
 ⇒ Jmeter.

Chrome version - 95.0.4638.69 (latest version)  
Firefox = 91.0 (latest version)  
Edge = 95.0.1020.49 (latest version)

classmate

Date \_\_\_\_\_

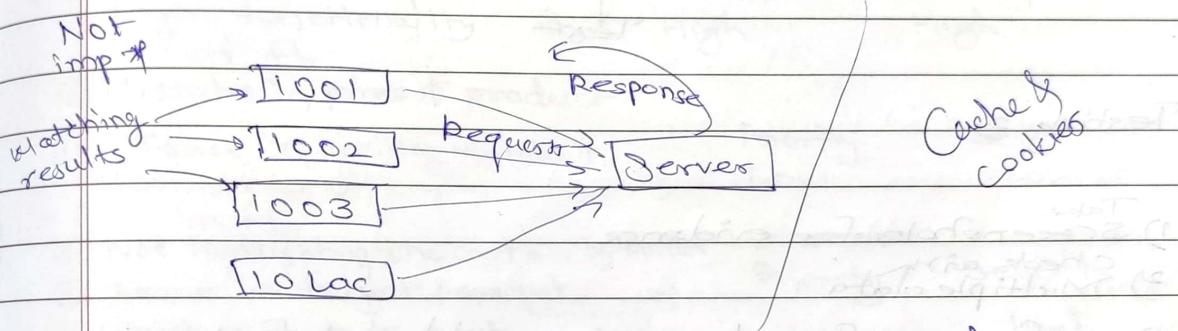
Page \_\_\_\_\_

- In the Jmeter app there are virtual users.

- Working - <sup>virtual</sup> 100 users can open the same app/link.

Q1 \* Who works on performance & API with different loads.  
⇒ Lead.

(We didn't perform perf this testing but I have some idea about this)



Load testing → increasing no. of users by using Jmeter  
Stress testing → checking in different internet operators.

### ③ Globalization testing -

facebook

Maharashtra (Marathi)	Gujrati	Tamil
--------------------------	---------	-------

- ⇒ If text in application is changing to local language
- ⇒ Number & logo will not & some short abbreviations will not change.

### ④ Sanitation testing / Garbage testing -

flipkart

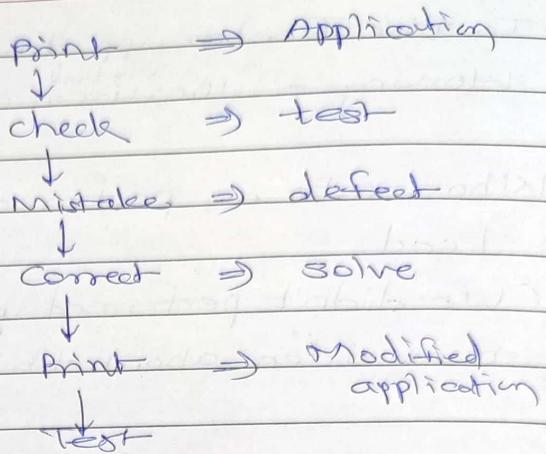
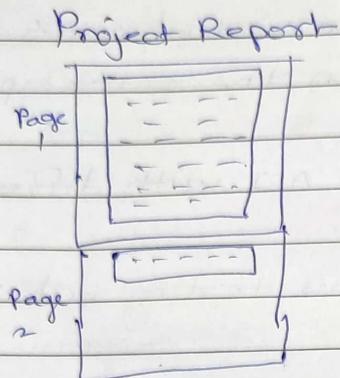
Mobile Mi → 10000

city → 02

Total Price = 100000

This is developed by developer which is not part of requirement.

- Here we check extra features developed by developer which is not a part of requirement.



Testing  $\Rightarrow$

- Take  
 1) Screenshots for evidence  
 2) Check with  
 3) Multiple data

3) Defect confirmed  $\Rightarrow$  Then add a defect in Jira

Defects  
 1) Summary

User story

- 1) Summary  
 2) Acceptance criteria  
 3) Assignee  
 4) Test Engineer  
 5) Story points  
 6) Sprint Number

Defect  $\Rightarrow$

- 1) Summary  
 2) Steps to  
 reproduce defect  
 3) Assignee

- ① [Login] User ID & password textboxes shifts when there is error message
- ② 1) Navigate to login page  
 2) Click in the textbox & click outside the text box  
 3) User is able to see textbox gets shifted towards left  
 It is not expected  
 Please refer attached screenshots.
- ③ See the developer name in UI & assign him.

Impact types  $\Rightarrow$  functionality & UI

IQ \* Introduce yourself  $\Rightarrow$

Name  $\sim$

Qualification  $\times$  I have completed my BE from Solapur University

Native place (District)  $\rightarrow$

Experience = I have 2+ years experience in software testing, currently working at Accenture

years classmate  
software testing, currently working at Accenture

Role & responsibilities  $\Rightarrow$  My roles & responsibilities

- one
- 1) Requirements & TC preparation
- 2) TC review as TC Executive
- 3) Defect reporting

IQ \*

Priority

Severity

- Importance of defect w.r.t. requirement.

- Seriousness of defect w.r.t. functionality

① Issue in facebook logo  $\Rightarrow$  Priority High Severity Low

② Amazon Arrow logo  $\rightarrow$  a-z

① Issue in login functionality of fb  $\Rightarrow$  Priority High Severity High

② Mistake in price of product

① Issue in spelling mistake in Terms & conditions in fb  $\Rightarrow$  Priority Low Severity Low

② Not highlighting the cart box by border in amazon

① Issue in forget pass not working which is part of next release  $\Rightarrow$  Priority Low Severity High

② Click on next button but its part of next release, When we withdraw money, on receipt available balance is missing.

Note: It's functionality & business logic

13/11/2021 10:00am How the TC should be, Roles & responsibilities, smoke testing, functional testing, non-functional testing, BBT techniques, Pan card BVA, BCP, difference b/w BVA & BCP, backend coverage, browser compatibility testing, performance testing, diff bet' load & stress testing, load testing tool, Defect creation format, difference bet' priority & severity, eg on MPHIS, MHS, LPHS, LPHS except login page, what defects you usually getting while doing browser compatibility testing, TC on login page, TC on water bottle

After 5 yrs where you want to see yourself, How much points you will give as a tester out of 5, what you will do if your team is not co-operating with you if you are team leader, TC design, TC on traffic signal, TC on washing machine, why testing is required.

Preparation knowledge - 8

Feedback - Communication - 9

Confidence - 9

Remarks - Need more preparation

\* If developer don't accept a defect then classmate  
that defect is not a bug.

Date \_\_\_\_\_  
Page \_\_\_\_\_

	Priority	Severity
① Mistake in Facebook logo	High	Low
② Amazon arrow logo, instead of (a-z), its (a-o)	High	Low
① Issue in Login functionality of fb	High	High
② Mistake in price of product on Amazon/flipkart	High	High
① Mistake in spelling of terms & conditions data	Low	Low
② If we hover cursor on <u>cart</u> of Amazon, then it is not highlighting that cart by border	Low	Low
① Issue in "forget password" functionality if user is having valid credential & can able to login	Low	High
② Page navigation/ Link navigation is not working if we click on "Next" button. But this button is a part of next retest.	Low	High

14 Nov 2014

SUN

Q1 \* Which tool you are using for defect management?

→ JIRA tool.

### Defect

- 1) Summary
- 2) Steps to reproduce defect
- 3) Assignee
- 4) Severity
- 5) Priority
- 6) Sprint
- 7) US related.

US, defect, task, epic

- \* Every defect is not a bug but  
Every bug is a defect

classmate

Date \_\_\_\_\_  
Page \_\_\_\_\_

Defect raising procedure -

- 1) Go to project (left side)
- 2) Click on Create button
- 3) Select our project from project dropdown
- 4) Select "Bug" from issue-type dropdown
- 5) Write summary in summary + test base
- 6)

Q \* What is difference bet<sup>n</sup> bug & defect ?

- 1) What is mean by Error?
- 2) What is mean by Defect?
- 3) What is mean by Bug?
- 4) What is mean by Issue?

Error  $\Rightarrow$  It is a mistake in a program or code

Defect  $\Rightarrow$  During test, if we found that error (in terms of testing not coding)

Bug  $\Rightarrow$  If that Defect is accepted by developer is called as a Bug.

Issue  $\Rightarrow$  Bug having impact on other ~~systems~~ module

15 Nov 2021

Then Testing  $\rightarrow$  Built -  
Defect raised

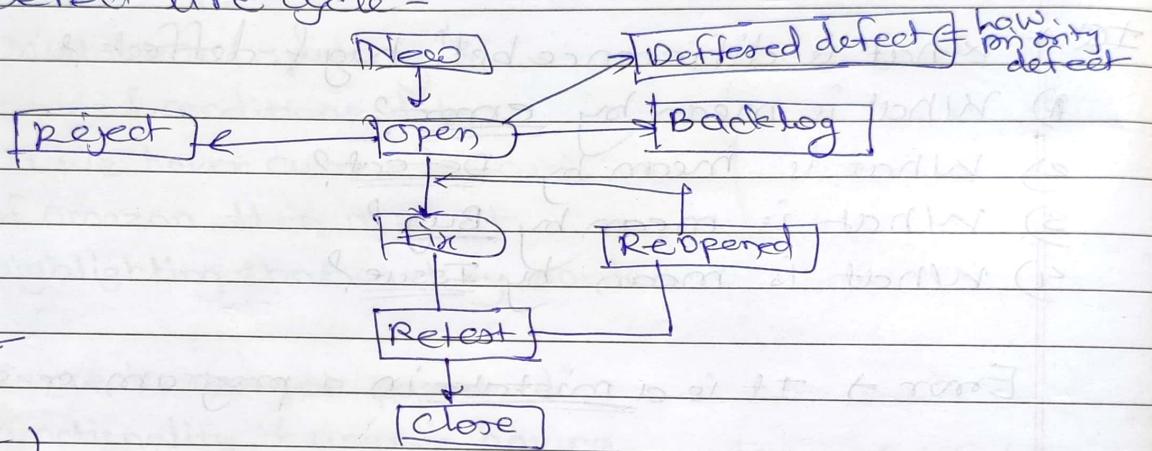
Build

Defect - Raise  $\rightarrow$  defect fixed

Modified  
Build

- \* We will not write test cases for Non-functional testing.
- \* Non-functional testing is not US related Task related JIRA.
- \* Retest - We check defect is fixed or not on modified build with multiple test data.
- \* Regression Testing -  
→ Here we check the impact of bug fix on other module.

### # Defect life cycle -



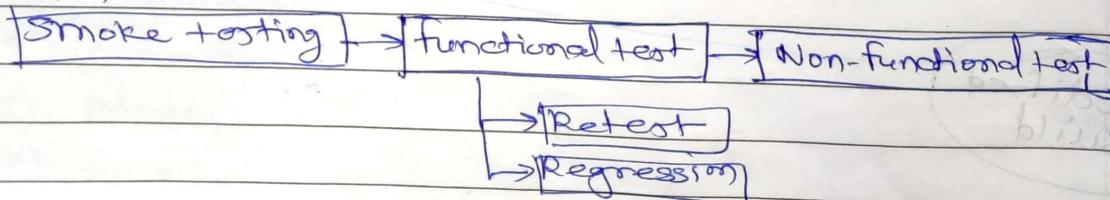
16 Nov 2021  
Tue

- sprint 1
- 1 US understand
  - 2 TC
  - 3 TC
  - 4 TC
  - 5 TC Review

- sprint planning meeting for sprint 2 → 6 Test execution { smoke testing & test case execution }

- US walk through meeting for sprint 2 → 8 7 { TC execution, defect reporting, Jira log, defect fix, modified defect, Retest, regression }

- Sprint 2 → 9 10 → sprint retrospective meeting



\* Severity is decided by tester

\* Priority is decided by developer by discussing with us.

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

④ Last day of sprint (on day 10)

⑤ Sprint planning meeting (2 hrs) review

- Here we showcase our work done in this sprint

→ Scrum master, PO, dev team & test team.

① Sprint planning meeting → 4 days before sprint

② US walkthrough meeting → 2 days before sprint

③ Daily standup meeting → daily

④ Sprint review meeting → ~~last~~ next day of current sprint

⑤ Retrospective meeting → next day of current sprint

Ques \*

What is retrospective meeting? (30 min)

→ What went well? | Challenger | Remedies

		Challenger	Remedies
①	1) Team coordination	for e.g. <u>defects</u>	self
②	2) Defects fixed in time	1) Unit testing was not done properly	→ focus on unit testing
③	3) Dev was completed in time, so got sufficient time for testing	2) There was confusion regarding requirements	Requirement clarification from S.M.
④	4) We are able to finish testing task within sprint	3) As we got build very late for testing so we are unable to complete testing sprint	
⑤	5) Unit testing was done properly by the developer so we got less defects in the testing.	4) All defects were fixed in sprint having bugs.	
⑥	6) Requirements are very well explained by S.M.	5) Fixed was not done properly.	

For this we use Confluence tool.

~~spill over~~  $\Rightarrow$  If we are able to test on one user  
then ~~if we move~~  $\Rightarrow$  Date  
that user in the next ~~spill over~~  $\Rightarrow$  that user are called as spill over.

### Config

In UI, we check - Font size

- Font color

- Font family ( $\Rightarrow$  font name checked)

We will compare

this properties on browser with mockup.

17 NOV 2021

Wed

Defect States

\* Defect Types - Only two types - functional & UI.

1) Rejected defect - If defect is invalid

for e.g. Mini statement should show 5 transactions but transaction done only 3.

2) Cancelled -

for e.g. US  $\Rightarrow$  User is Invalid

developer developed  $\Rightarrow$  UserID or Password is invalid.

3) Defect Not Reproduce -

If defect is reproducing on our machine but not in developer's screen then what is a root cause of this issue?

$\Rightarrow$  It is an environmental issue because we are testing on test environment but developer is using dev environment.

- Issue might be due to different database or changes in Table Names for these two environments.

Q \* If the defect you will do if defect is not reproducible at any cost?

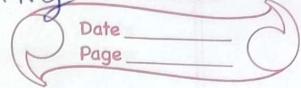
$\Rightarrow$  If that defect has High priority & High severity for e.g. transaction done but money is not credited into account then try to reproduce that defect for even 2-3 days.

$\Rightarrow$  Check the logs of that transaction by contacting with backend team.

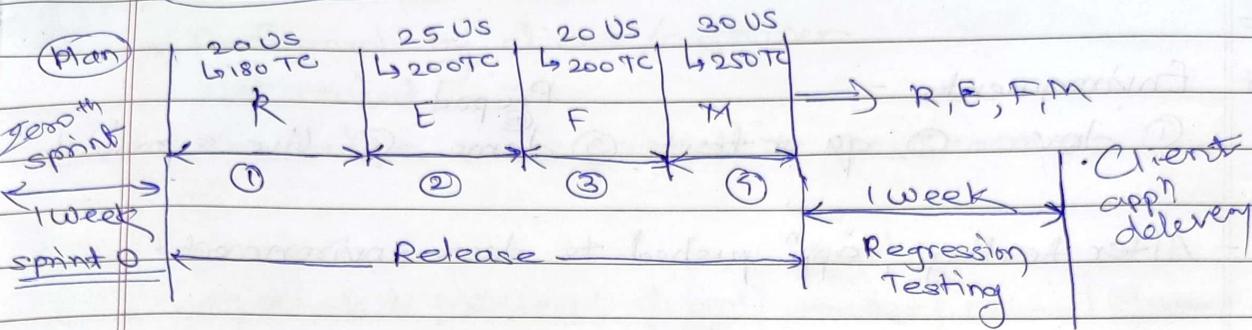
$R$  = Recharge  
 $E$  = Electricity  
 $F$  = Fund transfer  
 $M$  = Movie ticket

\* Test suit  $\Rightarrow$  TC for regression

Testing - classmate



Duration  
2 Month



\* Regression Testing -

$$\text{Sprint 1} = 180 \text{ TC}$$

$$\text{Sprint 2} = 200 \text{ TC}$$

$$\text{Sprint 3} = 200 \text{ TC}$$

$$\text{Sprint 4} = 250 \text{ TC}$$

$$\underline{\quad 800 \text{ TC}}$$

In regression testing we test

1) failed test cases

2) HP

3) MP

IQ \* What you will do if client ~~asks~~ asks app before one week (In 2 days) ~~after~~ release time & you have 600 TC?

Then we have to do adhoc testing.

1) Test all failed TC (all)

2) Test some HP TC (random)

3) Test some MP TC (random)

\* Adhoc - For Adhoc testing no knowledge of app is required only test cases & data is required.

\* Adhoc Testing -

\* Exploratory testing -

- Test cases are not required

- Exploratory testing can be done by a person who have past experience on that app for eg. SM can do exploratory testing

\* Responsiveness Testing / Resolution Testing -

We don't log defect from UAT in Jira

CLASSMATE

Date \_\_\_\_\_  
Page \_\_\_\_\_

20 Nov 2021

Sat

#### \* Environments -

- ① dev
- ② qa or test
- ③ demo
- ④ live or product

Prepared

- After testing, app^n pushed to demo environment

#### \* Sanity Testing -

- Performed by us.

- env used - demo env.

- Checking basic core functionalities.

#### \* Difference betw smoke & sanity -

##### Smoke

- QA env.

- first testing on app^n

##### Sanity

- demo env.

- checking basic core functional so that UAT can start.

(To confirm to start UAT from outside)

#### \* Procedure for

##### Sign off Email

To : (Product owner name)

cc : (Scrum master), (Lead), (Developer)

Subject : QCT - sign off | sanity has done on GuruBank

Hi Team,

We have completed Scanity testing on GuruBank on Demo and it looks good.

We can proceed for UAT.

URL : <http://110.12.198.23/demo.facebook.com>

Warm Regards,  
Sandesh

### \* UAT -

- Performed by client/customer
- Not raised in Jira
- Created in Excel present in MS Teams.

### Format -

Sr No.	Module	defect	defect type	(Raised by) <del>ext user</del>	owner	status	ETA
e.g. 1	Ministate ment	only 3 trans are appeared instead of 5	functional	Georg	Jandesh	To do	21/11/2021
e.g. 2	fund transfer	Amt less than e			Dominic	To do	20/11/2021

- UAT is done on demo environment
- If defect caught to client then after fixing that defect by our developer, we test that defect on qa environment.

21 Nov  
2021  
Interview  
9:00 am

Qs. What is regression testing, sanitization testing, Exploratory testing, adhoc testing, deferred defect, retrospective meeting, TC on date field of red bus app, if developer rejects defect then what you will do, defect life cycle, what is your work in the project (daily routine), diff bet error, bug, defect, issue, LP & HS example, TC preparation tool & field, performance testing, Non-functional testing.

Total # of test cases means  
Total number of test cases

CLASSMATE

Date \_\_\_\_\_  
Page \_\_\_\_\_

22nd Nov 2021  
MOD

SEICI Bank

Issue Found  
by user

SEICI Bank  
developed  
in house

This is the  
production issue @ Hot fix.

### \* Production Issue / Hot fix $\Rightarrow$

- Live env
- Issue is reported by end user
- This is fixed in 24 hrs
- Production support team.

### ~~TC~~ \* Reporting -

#### ① Test Execution report

#### ② Defect summary report

#### ① Test Execution report -

Sr. No.	Total # of test Cases	# of TC Executed	# of TC Passed		# of TC Failed	# of TC Blocked
			Passed	Blocked		
1	Login	10	10	0	0	0
2	Home	12	9	3	0	0
3	Mini Statement	20	18	2	0	0
4	Balance Enquiry	20	10	2	8	0
5	Fund Transfer	36				
	Total	104	62			

TC Blocked means, that TC are depends on any other Test cases

#### ② Defect summary Report -

Sr. No.	Severity	No. of defects	Open	Fixed	Closed	Defect
①	High	6	2	9		use count function
②	Medium	12	2	10		
③	Low	7	7	0		as Excel
	Total	25	11	19		

Why defect summary is necessary? classmate  
⇒ Stakeholder should know easily

Date \_\_\_\_\_  
Page \_\_\_\_\_

From first day Regression testing is compulsory test cases.  
Test execution report & defect summary report after each iteration.

23rd Nov 2021

Tue

- \* If we got any new requirement from client during sprint then what is the process?  
⇒ We have check/discuss parameters like
  - Efforts required from dev/tester
  - Available efforts from in current sprint
  - Impact on functionality of other user story

24th Nov 2021

Wed

- \* Traceability Matrix -  
⇒ It is mapping bet. requirement & test cases.  
↓  
User story & test case.

for eg. \* What is daily scrum schedule in a project?  
Sprint planning meeting  
User story walkthrough

①	Standup	User stories details analysis
②	Standup	Grooming meeting (For clearing doubts)
③	Standup	TC creation
④	Standup	TC creation
⑤	Standup	TC creation
⑥	Stand up	TC Review, Traceability matrix
⑦	Stand up	Testing
⑧	Stand up	Testing
⑨	Stand up	Testing
⑩	Standup	Testing, Sprint review meeting

## \* Tracability Matrix -

User Stories	Test Cases														
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15														
Guru-1	* * * * *														
Guru-2															
Guru-3															
Guru-4															
Guru-5															

→ To avoid the missing user stories -

- Very simple task mapping -

## \* Creating defect in Jira -

Project - Guru

Issue type - Bug

Summary - Login | Incorrect error message for invalid password

## Steps to reproduce:-

- 1) Enter URL of app?
- 2) Enter valid userID (100) & Invalid Password (Guru)
- 3) Click on login button

User is able to see incorrect error message

Expected - User should be able to see error message as "password is not valid".

Attached screenshot here. Please have a look

## Test Plan -

S  
O  
S  
R  
E  
E  
K

- Scope of testing
  - ↳ Features to be tested
- Out of scope
  - ↳ Forget Password
  - ↳ Performance
- Schedule → Assigning responsible testers
- Roles & Responsibilities
- Entry criteria
  - ↳ env. → URL
- Testing tools → for eg. Postman
  - sql server
  - Browser
  - Code deployed
- Test Case
- Test data
- Exit criteria
  - 100% TC execute
  - There should not be any open defect.

## → Risk

- ↳ Availability of resources (Timeline can be extended)

Created by  
Lead

- Test Plan doc
- Project level document
- Test Plan Release 1.0
- Test Plan Release 2.0

Created by  
Manager

- Test Strategy doc
- Organization level doc.
- Objective
- Diff. types of testing
- Tools.
- Testing Env.

Test Scenario  
What to test

Test Case  
How to test

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

- \* STLC →
  - Defect - Azure Dev Ops
  - Test Plan
  - Testing Estimation
  - Requirement Analysis & test scenario identify
  - Test case preparation
  - Test Case Review
  - Test cases execution
  - Test Reports

### ⑥ Non Functional Testing - Recovery Testing -

- ↳ check application recovers from abnormal to normal situation -

for e.g. If user is downloading a movie but suddenly internet disconnects, then it should recover once internet back.

### JQ \* Introduction -

- Name
  - Native place
  - Experience
- ↳ Brief

30-45  
sec

### JQ \* Roles & Responsibility -

- Providing testing estimates / Test Report
- Requirement Analysis
- Identify test scenarios
- Test case creation
- Test case review
- Test execute.
- Discussed defect with developer
- Logging defect in Jira
- Traceability Matrix
- Client interaction.

JCO \* What is means Epic means?

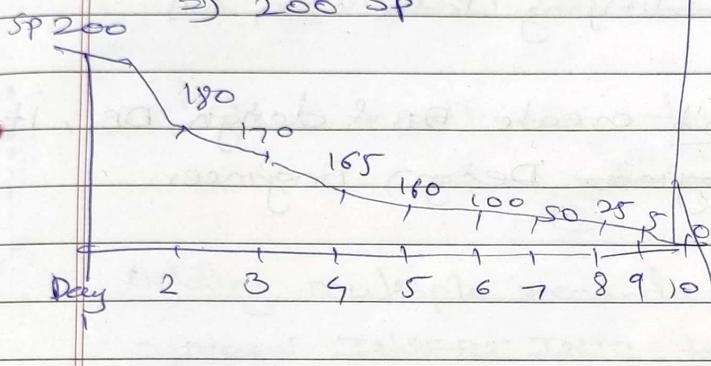
- Collection of no. of User Stories.

Q2. \* What is burn down chart & Velocity? (SM related)

Burndown chart

For ex.  
20 User Stories

$\Rightarrow$  200 SP

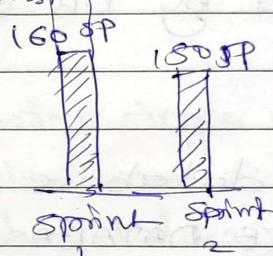


Velocity Chart

begin, Mini  
stand

200 SP - Total in single sprint

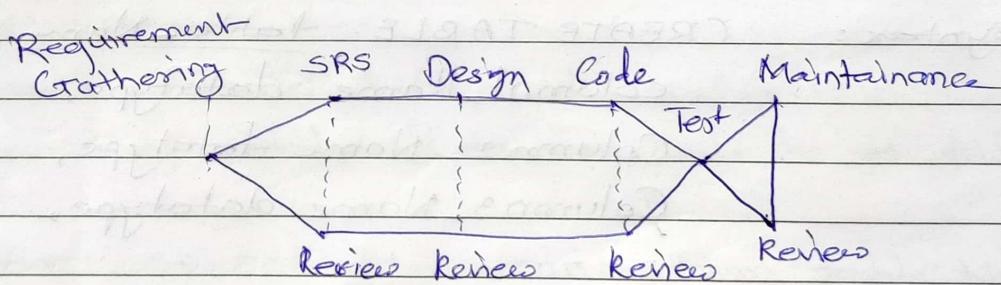
Completed - 180 SP  
in sprint



How much  
work should  
be done in  
next sprints  
estimate.

\* Verification vs validation  $\Rightarrow$

\* Fish Model



Verification

- In process
- Static testing
- Quality control
- In verification, Requrig

SRS analysis will be done,  
SRS review will be done,

Design review will be done;

Validation

- Outprocess
- Dynamic testing
- Quality Assurance
- In validation, functional

testing is done & maintenance  
will be reviewed.