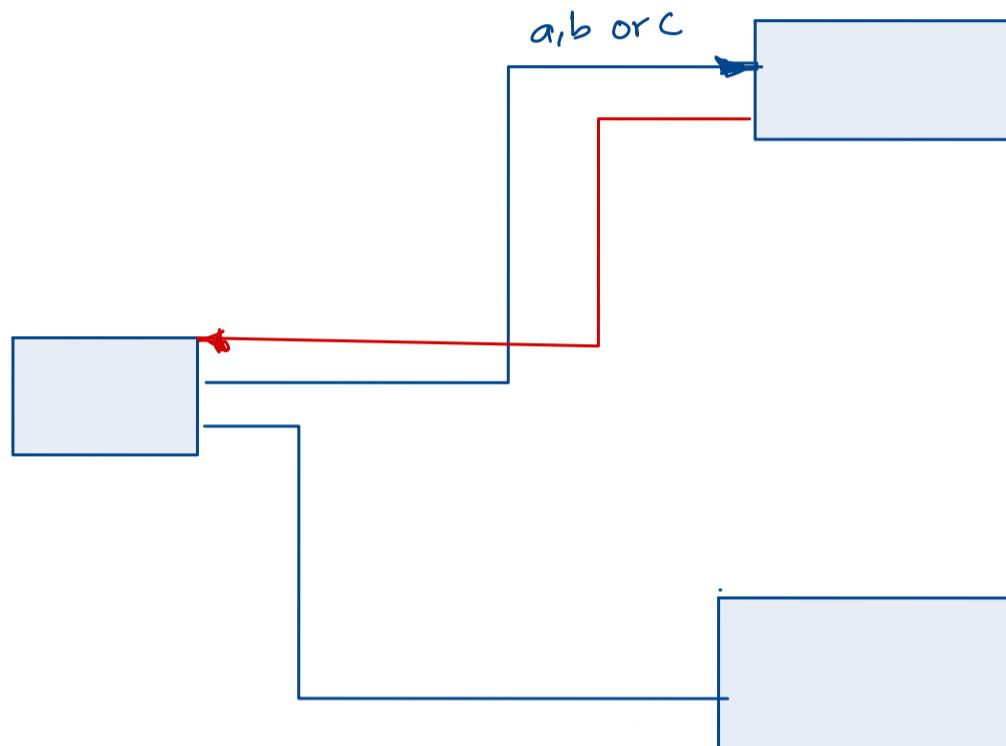


②

file mapping validation

After that we will move to the file mapping validation i.e. request of response. file mapping.



If we send request ab
In response we will get ab only.

Sent request	Response get
a, b	Success
a, c	Success
a, b, d	Success \Rightarrow Surplus data is getting ignored.
a, d	Failed \Rightarrow lack of data. \Rightarrow we don't have to move forward.

Whatever possibilities are there we have to put it in matrix form so that it will be easy for testing.

Data migration project

Where have you involved in data migration?

Oracle to Hadoop / Big data.

Big data

Recently we are implementing big data on our billing system.

Note: Don't need to count no. of yrs.

What are the source system in Big data?

SMS

MMS

voice

data

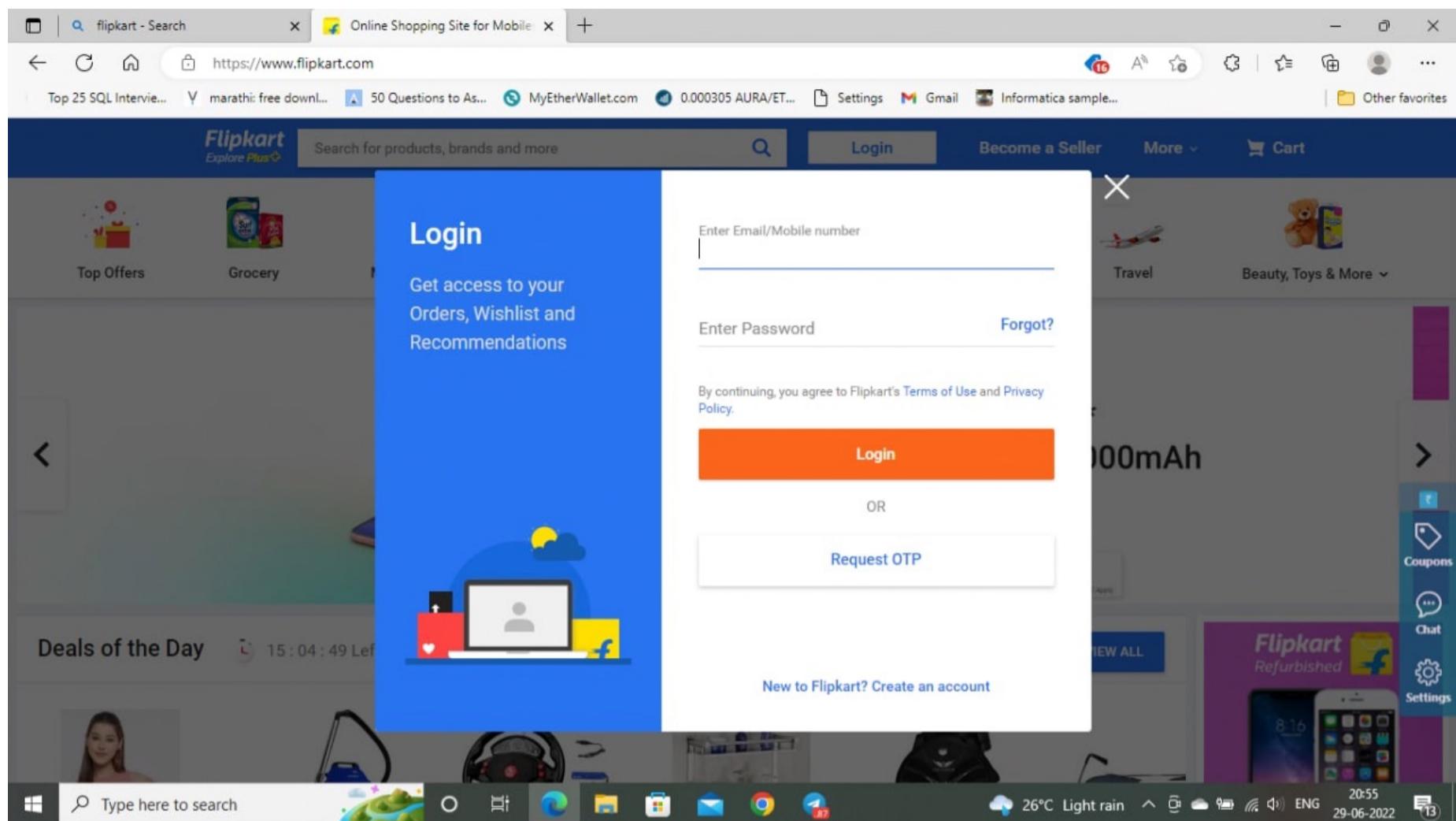
billing

Target

DWH → Oracle

f Sir recently we are migrating to cloud

flipkart Scenarios



Two functions

① Login

② Request to OTP

function.

Scenario's

Flipkart - login - mobile number - password - existing candidate

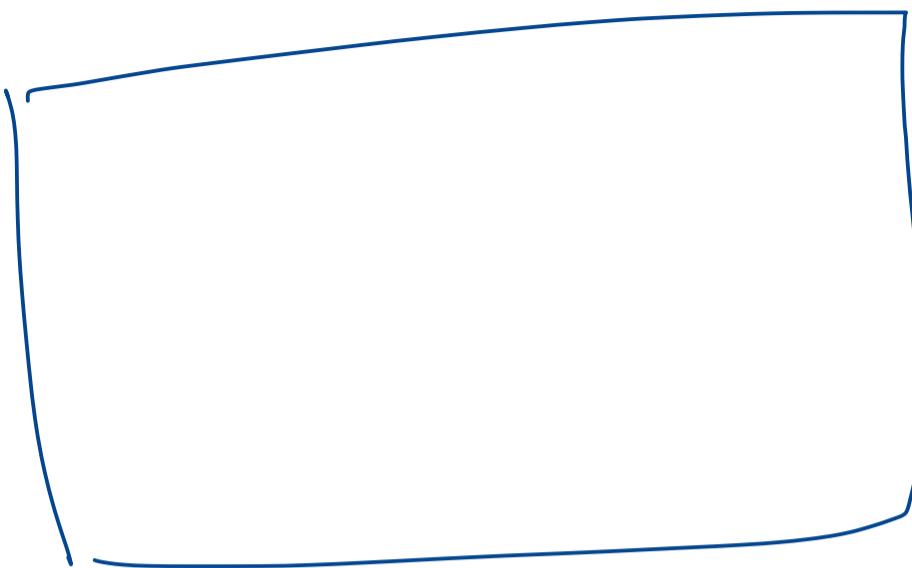
Flipkart - login - email - password - existing candidate

Flipkart - request to otp - mobile number - password - existing candidate

Flipkart - request to otp - email - password - existing candidate

If new user / non existing candidate

This will be another requirement.



We have to design scenarios accordingly.

Note 11

Try to find out all possible scenarios.

Test Case

Note: practice min 10 test cases on excel sheet.

What will we do after creating scenarios?

These scenarios will go to the client.
Client will review it & ask justification if he wants.

Duration for scenario

2 days.

e.g

If 1 Jan → requirement came.

1 Jan - 3 Jan → requirement analysis.

4 Jan - 6 Jan → Test scenario

After this we will move towards test case design.

Duration for test case design

3-4 days.

What is SRS

Use case

Test scenario

Test case design.

Test Case design

Navigational statement to derive test scenario.

flipkart - mobile - password :

① Enter mobile number

② If text box of mobile number is static data.
→ max value = min value = 10
It should be integer.

③ Enter password

password should be according to restrictions.

④ Click on login

→ End user should be able to access

navigational statements to login into flipkart by using mobile no.

Test cases.

What is test case ?

A test case is nothing but A condition

needs to be applied

I mean to say
navigational statements

test case defines the
to derive the test scenario.

Interview What is test case ?

Sir basically what happens once we receive SRS which is functional requirement to be developed f system requirement to be used, in that one business condition will be there f that is use case.

After that we design test scenario.

I mean sir, all probable conditions needs to be applied to derive functionalities.

Sir generally after that we design test cases which is nothing but navigational statements to derive the test scenario One test scenario consists multiple test cases.

functionality in terms of i/p, o/p, process.

- python { must
- mongo dB
- ML 2 algorithm → AI test → mock.
(Atleast 1)
- putty , putty gen (client server integration)
(server side testing) (with help of unix)
- API manual
 automation
- (Taught at development approach
but testing approach have to see)

min. 15 lakh.

Q. Where do you write Test cases?

Excel sheet.

Suppose there are 3 requirements.

- ① Activate user ID
- ② forgot user ID
- ③

Each requirement should be in different sheets but in single file.

Naming of that sheet

Requirement name.

e.g

initcap

R 4.0 - Amazon - Login - Email

R 4.0 - Amazon - Login - Mobile Phone.

of different test case methods for different functions.

gui

Front end with functionality

System Integration

ETL

Web Service

almost same.

Note!!

write atleast 5-10 test cases for each - for practice.

Q. What is the difference between SIT test case & UAT test case?

SIT

SIT follows High level
test case

UAT

UAT follows low level
test case.

e.g

- enter the details
- click on ok button

o/p → address should be
saved in database

- e.g
- Select country from country dropdown
 - Enter customer full name
 - Enter mobile no.
 - Add address
 - Enter pincode

Q. Where have you involved?

Q. Which is known as good Test Case?

Simple language

GUI Test Case

e.g Alignment should be there
color
label name

We have covered GUI test cases during functionality testing.

Front end with functionality Test Case

Requirement - unlock / Activate the user ID

R 4.0 - Canara Bank - login - unlock / Activate the user ID.

~~IMP Interview~~

What is the test case format for functionality Testing?

①

font size → Calibri (10) / Calibri (9)

Sr. No.	Test Case Name	Description	Priority	Test data	Precondition/ prerequisite	Action	Expected Result

Note

There won't be Actual result in test cases.

As we are using tool,
Actual result will be on tool.

② Color for Test case columns:

→ colour should be always light color.

Don't ever give red / dark color for Test Case columns.

③ Do bordering

④ Define functionality before scenarios.
for this use different color

e.g

R 4.0 - Canara Bank - Activate uid - Retail User - Activate User - Aadhar.

⑤ Sr. no.

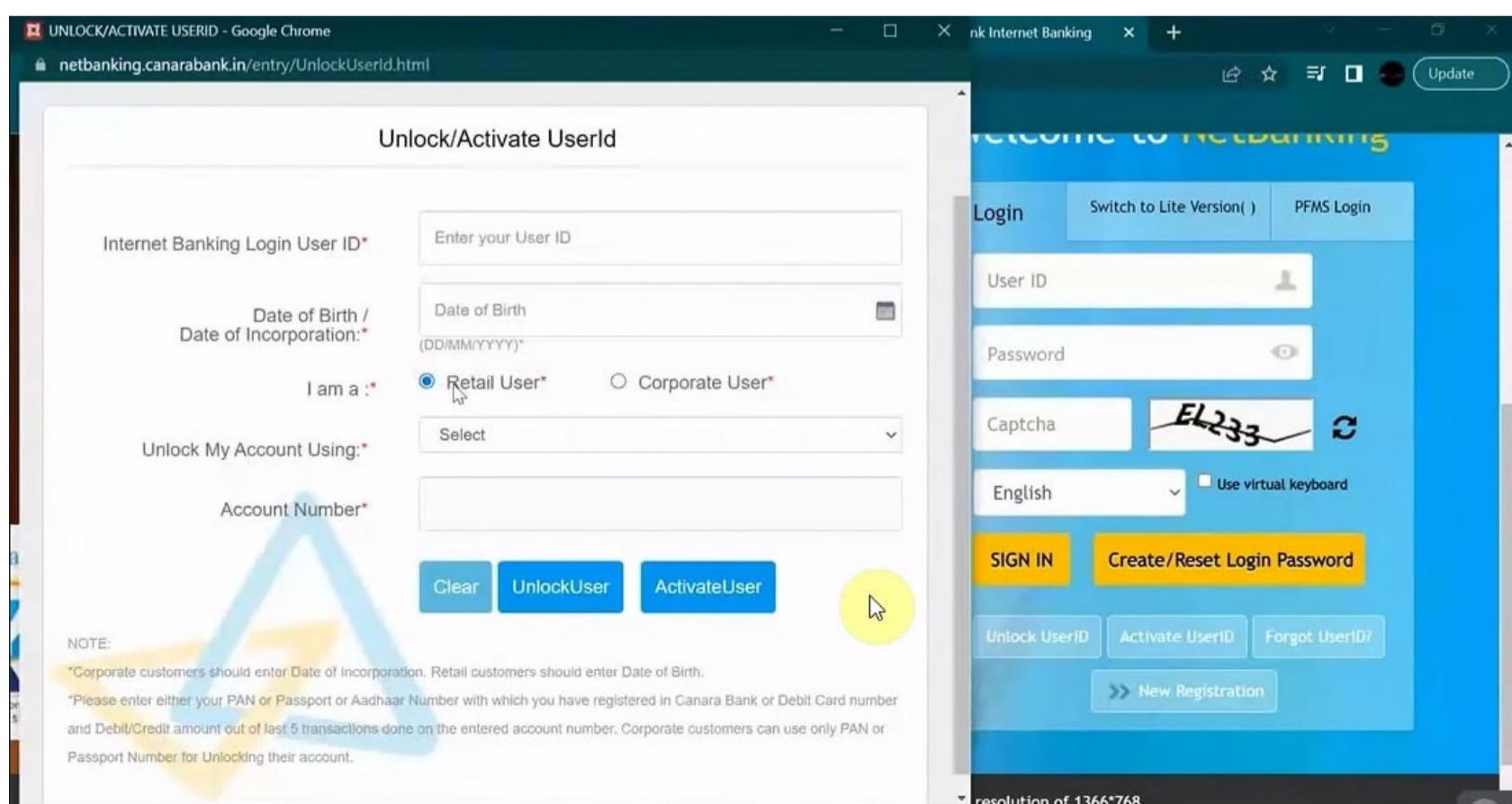
⑥ Test Case Name

Test Case Name should follow folder structure

Mechanism.

i.e. R 4.0 - Canara Bank - Activate uid

Here whatever we write that defines scenarios.
↑
function name



Here 1st variable factor is
① Retail user
② corporate user.

1st we will do for retail user.

Here
of 3 functions

clear

unlock user

Activate User

Now we are writing test cases for Activate user.

⇒ Test case name will be

R 4.0 - Canara Bank - Activate uid - Retail User - Activate User.
↑
1st variable
↑
1st function.
(This is nothing but requirement).

⑦ Description

Always write in simple language

⇒ End user | Retail user can able to 'Activate user',
↑
object function.

Note!!

Always use 'single quotation' for
object function

⑧

Priority

There are two scenarios

① Test case priority

Note!!

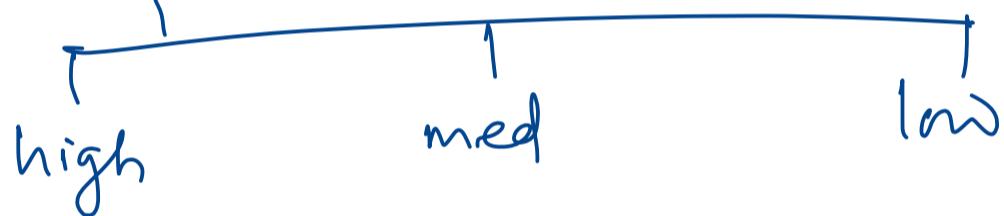
There is no severity in Test Case

② Defect Priority | Severity.

Q. Who assign the priority ?

Obviously we sir.

It is classified as



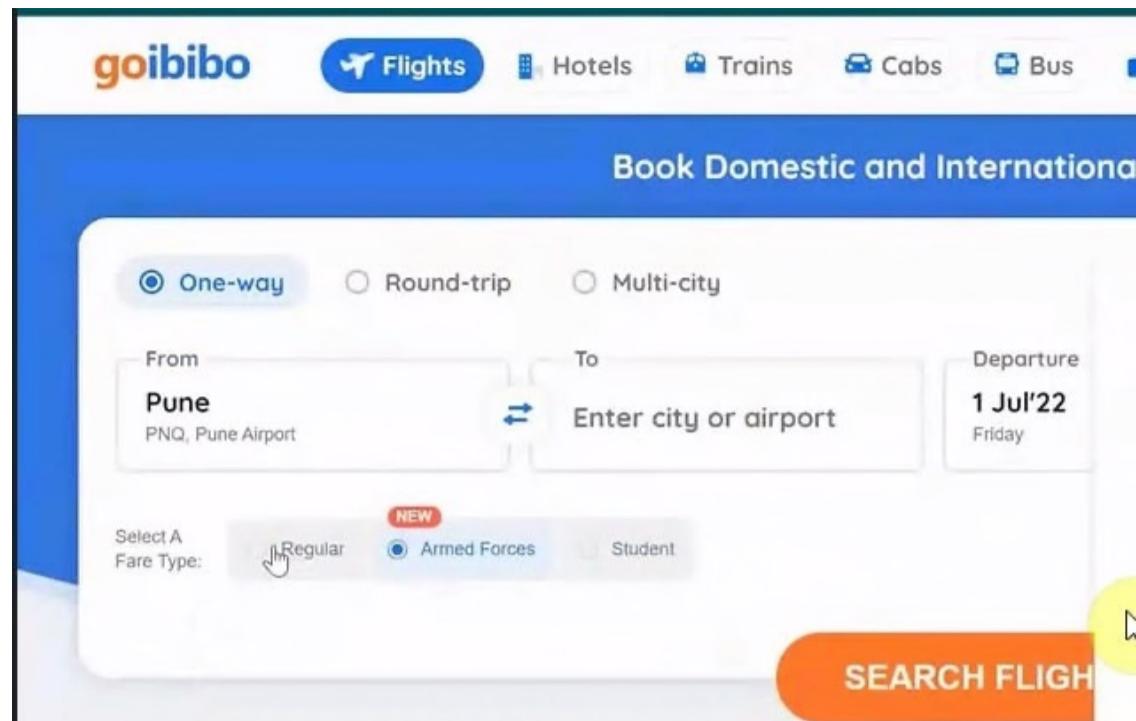
① Suppose an issue

① Suppose an issue

[Defect]: End user couldn't able to select [From] option
⇒ user is not able to purchase the ticket
⇒ Its impacting business max.

priority : High.

(2)



Defect: End user not able to select a proper fare type

Priority : less.

Sometimes what happens, we couldn't understand criticality of functionality. At that time we take help from BA.

⑨ Test data
It suggests the data required to do the testing.

If you don't have data then simply write → N/A

What is data?

e.g To test adhar card,
we must know what is aadhar no.
of details about it.
i.e. 12 digit numeric.

give example for that.

⑩ Precondition

Before execution of test cases what
should be the status of the application.

e.g

- i) If we go to the website,
It should be active &
specific web page should be displayed.
- ii) After clicking Activate user we will get
required web page

Note!!

Here whatever we want to emphasis just
put it into 'single quotation'.

'unlock | Activate User ID' Page Should be displayed

It should be in
parts participle.

⑪ Action / Event

What activities we did these are mentioned under the Action/Event.

e.g

Every click is event.

We know, one scenario defines multiple test cases, generally 5-6 events in a scenario.

Event 1
i) Enter 'Internet Banking Login User ID'.
(As text box)

Note 1 Line shouldn't be too long.
for breaking lines use Alt + Enter.

Always keep label names in 'single quotation'.

⑫ Expected Result

Validate what should be the expected result.

'Internet Banking Login User ID' should be be
16 digit numeric.

Notes

- Never write in Bold letters while writing Test Case.
- Don't use Red color
This color ∈ delivery mgts.
- If we want to emphasize something then we can use navy blue color.

At the time of execution we have to check, whether we are getting expected results / not -

~~Imp Interview~~
~~Do you cover all five scenarios during test case?~~

No,
During test case design we cover all positive scenarios but some specific negative scenarios.

During execution all negative as well as positive scenarios are getting covered.

Event 2

→ Date of Birth | Date of incorporation.

ii) While writing this event all other things mentioned in the scenario are same because its just the next step of 1st event - so here we are just adding event no.

Enter 'Date of Birth | Date of incorporation'

Expected Result

(A) Validate Date format should be DD/MM/YYYY

As its already clearly mentioned on application.

Note!!

Customization formation

Whether we are entering into date format

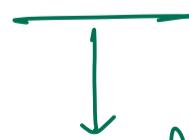
Standardization format

Selecting date from calendar icon.



It is known as

LOV



list of variables.

While executing
if we try to enter different date format,
we have to check whether its taking or not.

I mean,
we have to ask whether it should
be entered by both methods / only one method
is allowed f accordingly we have to test.

-
- ③ Date format should be
 - a) standardizable
 - b) customizable

Event 3 Retail user radio button.

Select user type as 'Retail user'

Expected result
Make sure retail user/corporate user are marked
with radio button.

Event 4 Unlock my account using →

Select 'unlock My Account Using' parameter as Aadhar Card

Expected Result
'Aadhar Number' Text box should be displayed.

[Event 5]

Enter "Aadhar Number"

Expected Result

Make sure Aadhar number should be 12 digit numeric.

[Event 6]

Account Number

Enter "Account Number" in account number text box

Expected Result

Account no. should be 16 digit numeric.

[Event 7]

click on "Activate User"

As this is button

⇒ fun. is click

Expected Result

a) Message should be successfully displayed as

,

This msg should be according to
client -

If its not mentioned in SRS then ask BA.

b) Verify database,

6 digit numeric id should be created.

How activating user with help of pan card.

⇒ Copy → paste

R 4.0 - Canara Bank - Activate VID - Retail User - PAN Card.

just replace pan card with Aadhar Card.
f make changes accordingly.

Same way do write for other variables

— passport

R 4.0 - Canara Bank - Activate VID - Retail User - passport

— Debit card Number linked to account.

Corporate User

In same way write test cases for corporate user.

Note while writing this we can simply change
Retail with corporate

f can make changes accordingly.

This should be in another sheet but in same file.

Note!!

Whenever client is going to review ,
he won't review all the steps in the test cases .

He will review only the scenarios .

→ we have to explain it all the things.

If something is missed then client will say to add
those specific scenarios.

Negative Test Cases

When customer specifically mentions about particular
negative condition.

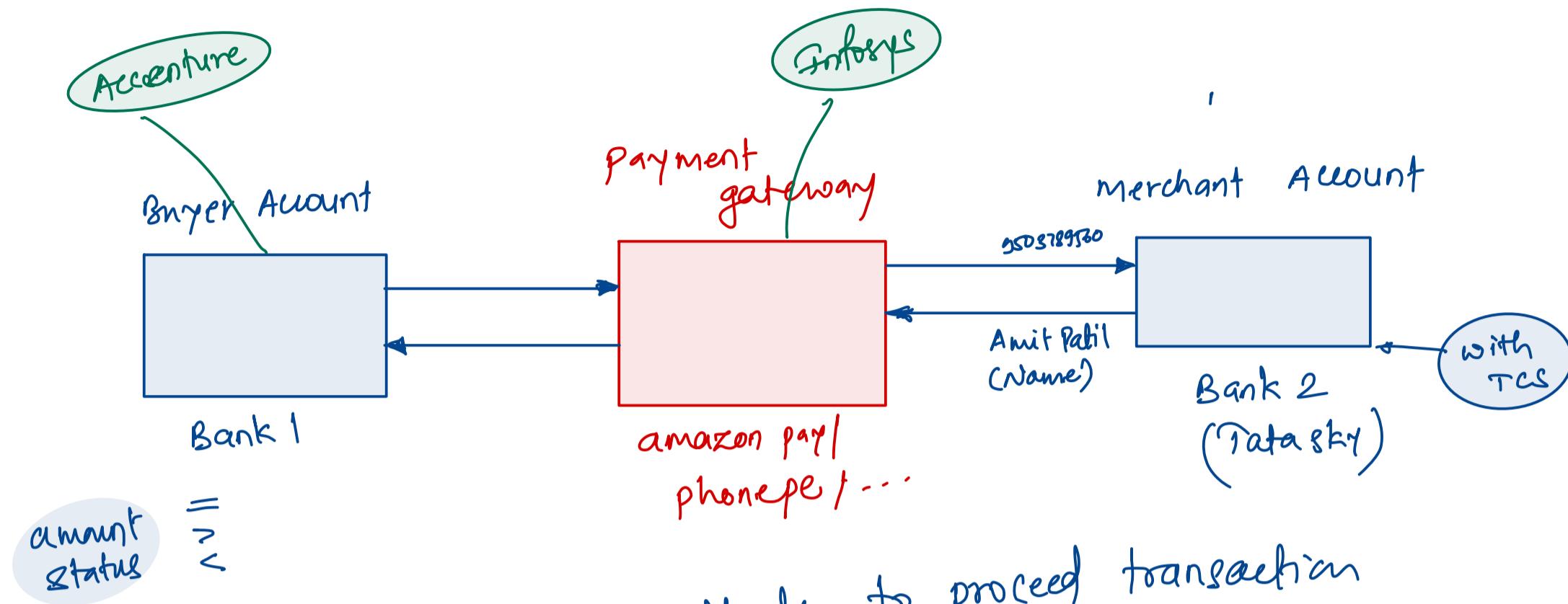
e.g mobile no. shouldn't start with zero (0) .

At such cases we will write these negative
test cases .

Homework

- Q. Write the test cases for activate user ID of canara bank .
- Q. Try for forgot user ID .

Test Cases for System Integration



There are various methods to proceed transaction

- e.g -
— Bank account
— Mobile no
— Q.R. Scan

Each methods are known as functions.

Suppose we want to transfer money with help of
mob no.

- ⇒ for that 1st we will type mob. no.
⇒ Request will send from payment gateway to
the merchant bank.
⇒ We will get response from merchant bank.
for confirmation of person.

Enter the amount which we want to pay.

- ⇒ Request will be sent to the buyer account
⇒ Whatever status of balance in account
that will be sent in response.

Note!!

Requirement will always come in phasewise manner

- e.g.
- ① mobile no. validation.
 - ② amount validation.

Requirement 1

Payment gateway - Merchant Account integration
for mobile verification.

Requirement 2

Payment gateway - Buyer Account integration
for amount validation.

~~e.g.~~
Amazon Pay.

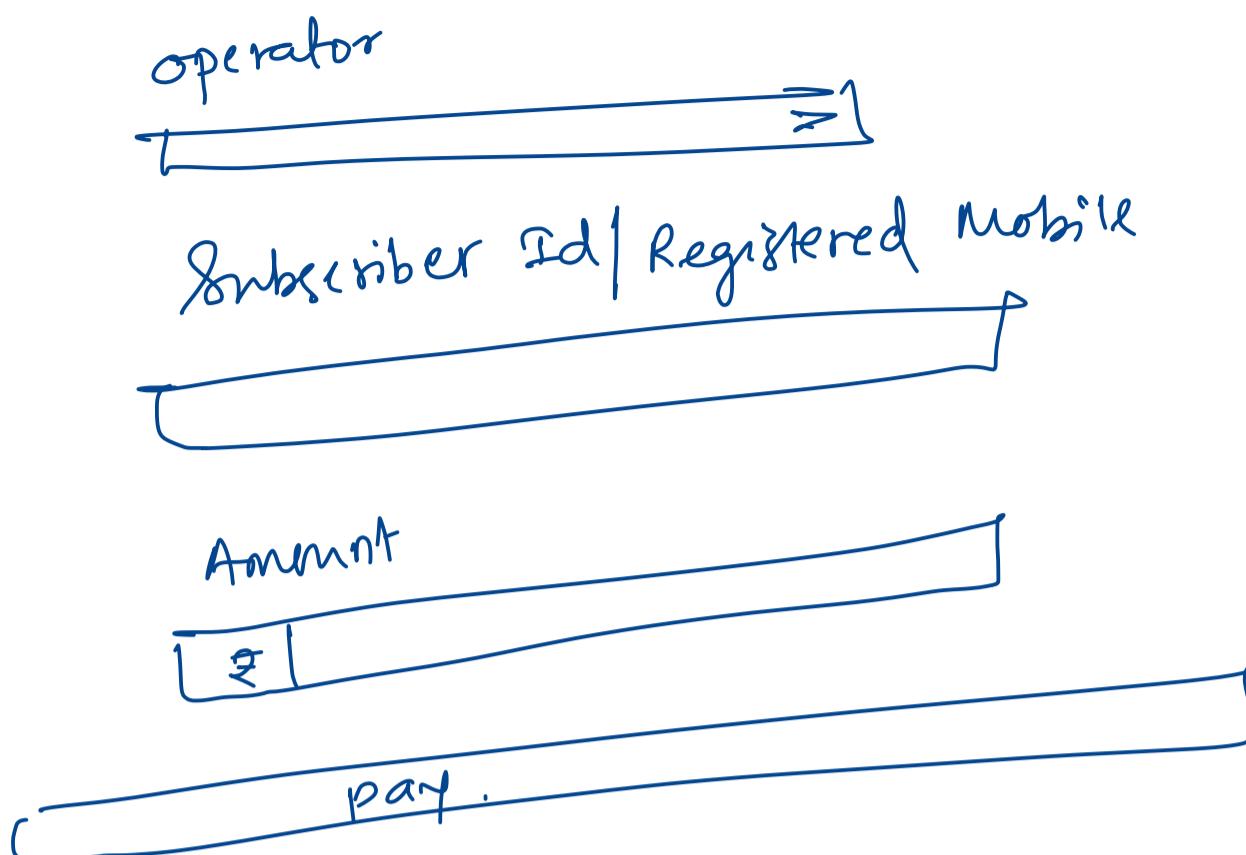
Recharge



Requirement

Amazon Pay - Tata Sky integration

DTH Recharges



Sr. no	Test case Name	Description	Priority	Test data	Precondition	Event / Action	Expected Result.
--------	----------------	-------------	----------	-----------	--------------	----------------	------------------

Scenario
① I want to pay the amount for DTH recharges via subscriber Id.

⇒ R4.0 - Amazon Pay - Merchant Account Integration
- DTH Recharge - Sub Scriber Id
 Release → name of project
 Requirement ↑ function.

001 →

Test Case name

R4.0 - Amazon Pay - Merchant Account Integration -
 DTH Recharge - Tata sky - Subscriber Id.

Description

End user can able to pay using subscriber id.

Priority

High

Test data

Subscriber Id : 10 digit numeric

Precondition

- ① amazon.in should be successfully Logged in
- ② DTH recharge page must be displayed.

Note]]

Here we have to write high level conditions.

Don't write low level conditions

like go to amazon pay
→ click dth recharge. etc -

Actions

Select operator name as 'Tata sky' from 'operator' dropdown

Select

(\rightarrow its drop down list)

Expected result

verify list of operator name

1- Tata sky

2- Airtel

⋮

Note]]

Be aware of casing of words.

⇒ Here we have to go to the database
As we get all the data from database only.

⇒ Select * from operator-name

⇒ Here all the list names should be present
which are displaying in the front end.

If not ⇒ defect.

Interview

Q. Do you write Test cases for backend?

Q. Do you write database testing test cases?

While writing test cases for system integration
we maintain one column named 'Database Impacted'.

In which we mention, whether that
particular data is impacting database or not.

⇒ This is nothing but database testing.

Database Impacted

Yes -

Event 2

Enter 'Subscriber Id' in 'Subscriber Id' Text box

Expected Result

Verify subscriber Id should be 10 digit numeric

Note!!

If customer has mentioned about negative data.

→ If wrong data ⇒ error message should be displayed as " ——————"

It should exact msg

which is mentioned in SRS.

— Make it in Blue color.

— If end user didn't mentioned anything about negative scenarios then cover these during execution.

No need to mention in test cases.

Event 3

Enter Amount in 'Amount' Text box.

Expected result

Amount value should be in the range of 50-49000

Note !!

During execution

Try +ve as well as -ve scenarios.

49 → error

49001 → is not taking value

⇒ Actually it should mention
why its not taking.

⇒ its defect.

Event 4

click on 'pay'

Expected Result

At backend, it will send request to merchant.

⇒ ① Verify Request file -

Amazon pay should send request to merchant account system.

Execution

Select * from subscriber-info

Run this query

⇒ check whether request file is getting generated / not.

If yes then

② operator name, subscriber id (pk), amount
Note || |
Atleast 1 pk should be there

These data are critical by nature

⇒ emphasis with blue color.

Execution

① Open XML sheet.

② check → subscriber id is there or not.

amount →

if decimal is not there

⇒ defect.

Event 5

As we will get response
verify xml Response from merchant Account System.

Note what will be on response file?

Suppose we gave mobile no.
if we get subscriber name -

→ Whatever requirement is there it should
be on response file.

Expected result

→ On response file
status should be successful.

Successful response must be received by amazon pay.

① Successful response must be received by amazon pay.

② Validate Response file. It must contain

1. status = success

2. operator Name

3. Date format

4. Date of Delivery

These things will
be there in SRS.
as per requirement.

What if nothing is there?

xml parsing will be done

i.e. request of response file will be matched.

③ map request of response file.

Whenever writing new scenarios

→ Simply copy + paste

make changes accordingly wherever needed.
ie subscriber id with mobile no.

Different variables

Ecommerce payment system integration - Netbanking

Ecommerce payment system integration - credit card

Ecommerce payment system integration - debit card

Ecommerce payment system integration - UPI

Note!!

SIT Test cases are High level Test cases.

→ If client mentioned about GUI low
level data

→ Then only mention in Test cases.

* Never write database query in Testcases.

Q. What is good Test case

1. Simple representation
2. cover all functionality
3. Easy to understand
4. Specific by nature.

Test case writing → duration - 3 days.

Test Case Review

Duration - 2 days.

Author	Designed date	cycle	Reviewed by	Reviewed date	Version
		SIT	BA write name. If 3-4 BA's then write all of them		Draft 001
					Issue 001
					Issue 002.
					final codes.

When version write at the 1st time
that will be known as draft version 001.
i.e. draft 001.

⇒ Draft version

there will be Review f is known as issue.

Why we need this test case review ?

If there will be an prod. issue in test case,
they are going to review the scenario -
They will ask about missing scenarios.

~~e.g~~
In subscriber id amount should be entered which is
critical parameter. Why you missed that?
We have to show the test case review doc
if that review is done by BA.

Q. Have you involved in Review?

yes, I have involved in review
(As this is imp scenario, do tell yes).

Q. What do you do in review?

Types of reviews

What are the types of reviews?

There are various types of reviews

- ① Self review
- ② Peer review
- ③ Internal review
- ④ External review

Self review

- by test engg himself.

Peer review

- along with team members.

Internal review

- Here everyone belongs to team (i.e. dev + test team + BA)

- Not done by BA only.

External review

Done by client.

~~Interview~~
Q. Do you have involved in review?

yes sir,

Basically there are various types of reviews

① Self review

I mean sir, we are going to review by ourselves.

② Peer review

I mean, test cases are reviewed along with
test team members -

③ Internal review

I mean everyone belongs to team I mean
(dev + test team + BA) will review
We share our test case everybody belongs
to project team I mean BA, testing team, dev -
(Actually its done by BA).

Here we are going to club the test case
for write email.

To , [Dev, test team, BA]

CC [PM, SPM, DM]

Hi Team,

Please find attached test case for
'R4.0_amazon-payment integration' for internal review
process.
If any modifications would be there, please send
us the review comments as on/before 26 July 2022.
If we would not receive any review comments
as on above said date, we will consider it
as final version of test case.

Note||

About mentioning deadline

give 3 days time period
(w/o considering weekends)

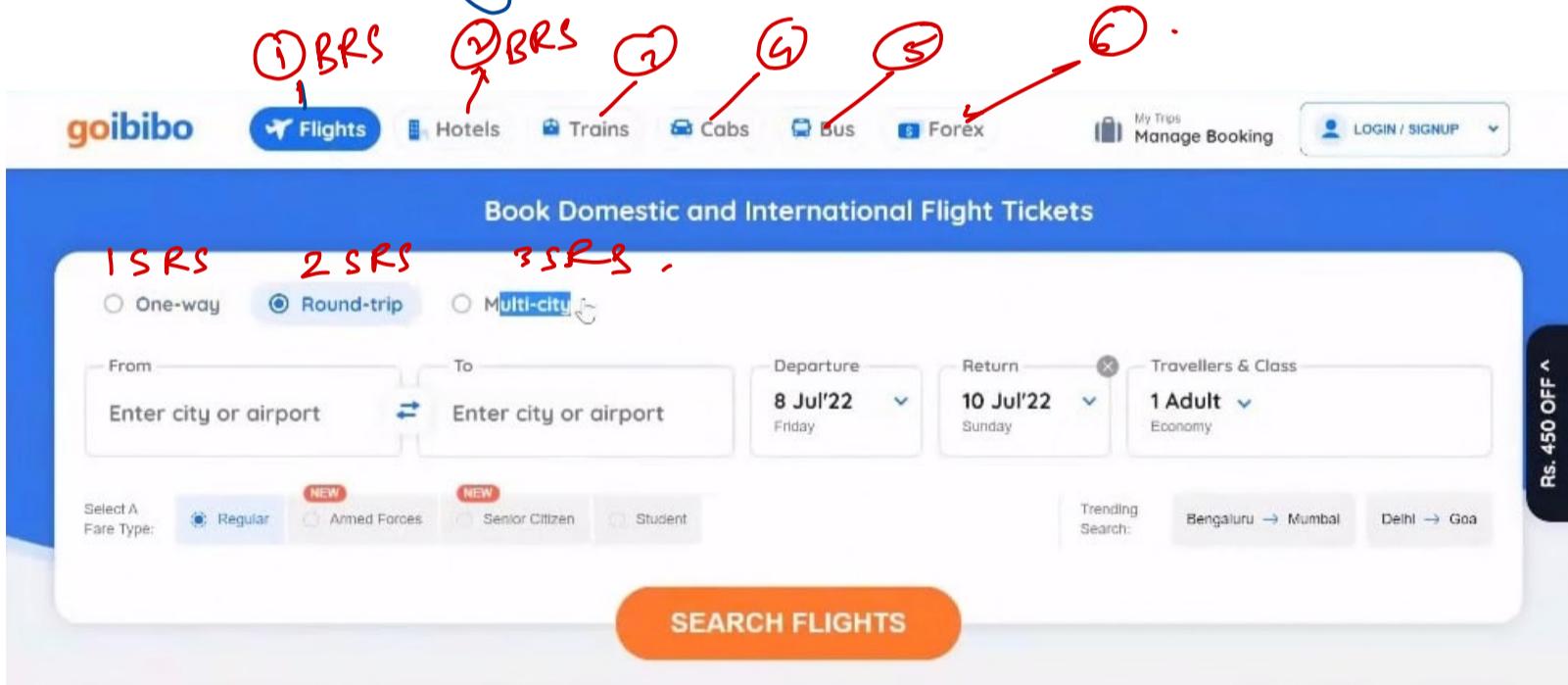
Q. What to do while reviewing any test case?

Sr. no.	Row no.	Description	Comments

Generally we concentrate on:

- based coverage (BR Based)
1. Business requirements based coverage
 2. SRS (use case) based coverage
 3. Data model based coverage.
 4. UI based coverage.
 5. TRM based coverage.

① BRS based coverage



Business requirement

Canara Bank

BRS 1 → unlock/activate User Id.

SRSL Retail User

SRS 2 corporate user

R 4.0 - Canara Bank - Login - Activate uid

R4.0 - Canara Bank - Log in - Activate uid - Retail user

R4.0 - Canara Bank - Login - Activate uid - corporate user.

R 4.0 - Canara Bank - 7

③ Data model based coverage

Every data involved has

	Size ↓ BVA	Type ↓ ECP	values .	Constraint	nullable
e.g Transaction ID	17	Numeric	range bet: 200000000 - 999999999	PK	= autogenerated.
Amount		Numeric	50 - 500000		

e.g If client is giving points then we have to mention it in test cases.

like

LR

- Subscriber ID → 9 digit static no. should be primary by nature

- Amount value range should be 50 - 4900.

④ VI based coverage

If specifically mentioned then only we will write such type of coverage.

e.g If client has mentioned abt. error should be displayed if from f to places are same.
⇒ Then we have to write it in test cases that Error msg should be displayed in red color
Such test case should be mentioned.

⑤ TRM based coverage

(Test Responsibility Matrix)

Q. What is TRM? (Test Responsibility Matrix)

It is designed during test strategy.

1. It defines mapping bet? test issues/factors with development stages.

test issues factors	Requirement gathering	Analysis	Design	Coding	Testing	Maintainance

Whatever work we are doing i.e. test factors, depends on that client gives money.

Test factors

- UI testing
 - functional testing
 - Integration Testing
 - performance Testing
 - security testing
 - WB Testing
 - configuration Testing
 - Recovery Test
 - compatibility Test
 - comprehensive Test
 - Durability Test
 - shift left test.

like this total
(\times factors will
be there)

(The test which done
on local env.)

Stages

At the time of project delivery, we have to write how many defects we got & how many pending defects are there.

Unless if until pending defects are zero our project is not completed.

External Review

Aka Inspection / Walkthrough.

Also in (execution + Test Case Review)

Have you involved in external review? (As it is prestigious)

Yes.

What is the mechanism for it?

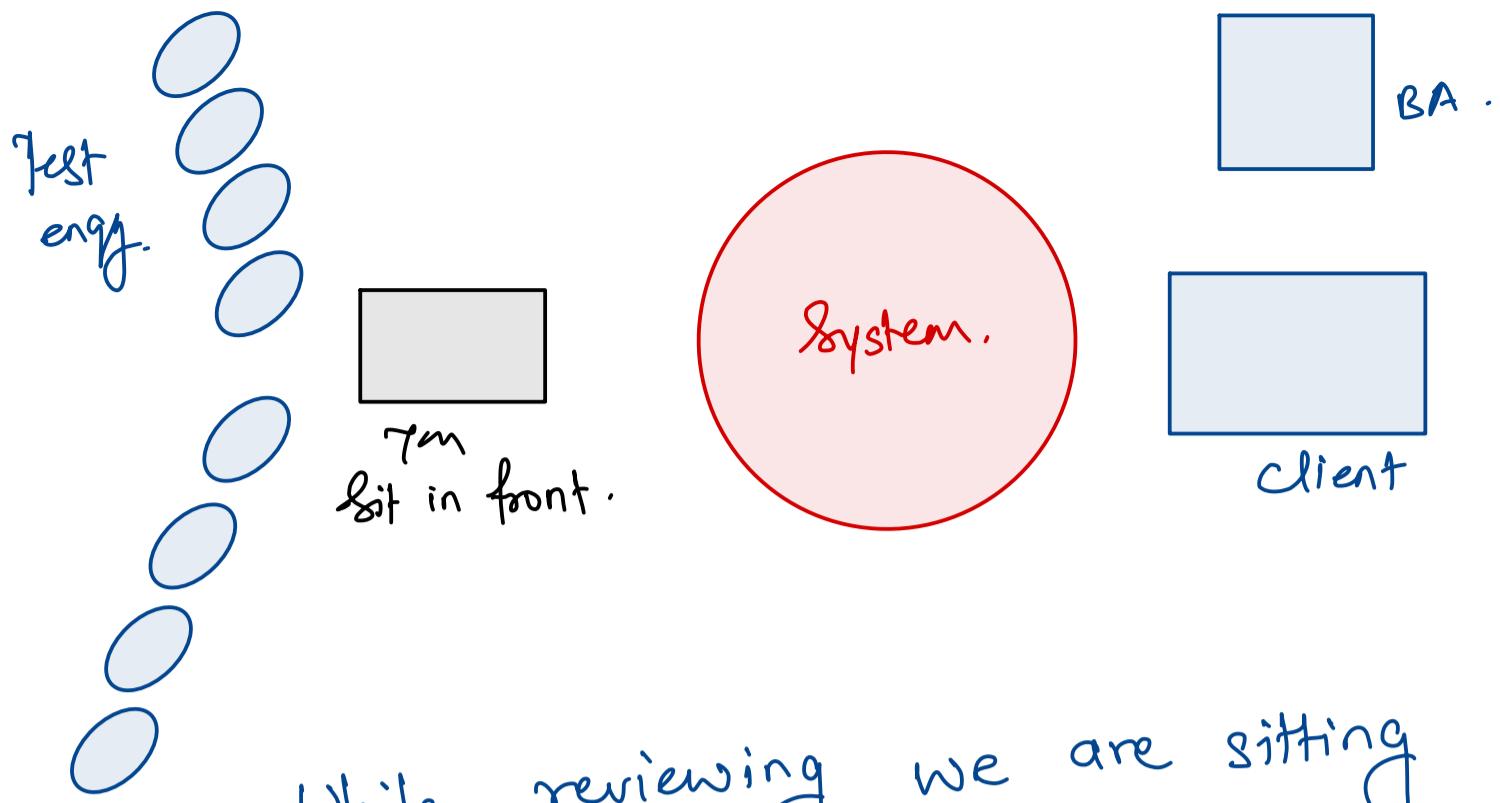
Here informal mechanism is used. Whatever test cases, test scenarios we have written those are reviewed by client.

Here we have to explain each of every scenario's of important points should be mentioned while explanation.

① We have to write a mail to client.

Hi Mike,

Please share with us your availability of time so that we can go ahead with the external review of SIT test cases.



While reviewing we are sitting in front of all the test engg.

There will be test engineers, client, BA during meeting. If on web call we have to communicate with them.

We have to explain each of every scenario in the system.

duration → 2 days / 1 release
2 hr - 4 hr.

around 100 - 120 requirements.

Whatever scenarios we have missed, they will told about it to add those particular scenarios. This updation will be sent to all of the associated personalities.

i.e. Dev, BA, client as per review comment.

What we are sharing is known as MOM i.e. minutes of meetings.

e.g
They will ask , if you want to recharge with help
of subscriber id then what should be the data the XML

format should carry ?

→ we will say what we have found

- operator name
- subscriber id
- amount .

Suppose in such situation we missed some parameters,

lets take , we miss about amount .

lets take , we miss about amount .

⇒ Then they will tell us to add this parameter
i.e. amount .

MOM (minutes of meeting)

This MOM is shared with everyone.

i.e. dev, BA, PM, SPM

Please find the 15th July 2022 (Friday) SIT test case external review MOM.

Date : 15th July 2022

Place :

Chairperson: Mike

Start Time : 9:00 A.M. (EST)

End Time :

Subject : SIT test case External Review,
(SIT Test Case Inspection)

URL —

Agenda : SIT Test case External Review,

Discussion :

Activate | unlock uid - Retail user.

Attendees :

Tomorrow Plan : Activate | unlock uid - corporate user.

1. All test scenarios have been analysed by Mike along with offshore SIT team member

2. Modification Area :

2.1

2.2

Traceability Matrix

- Q. What is Requirement Traceability Matrix?
- Q. Requirement validation Matrix?
- Q. Requirement mapping?

This document defines mapping bet. prepared test cases vs use case / requirements / business cond's.

It is categorized into two types

- ① forward
- ② Backward.

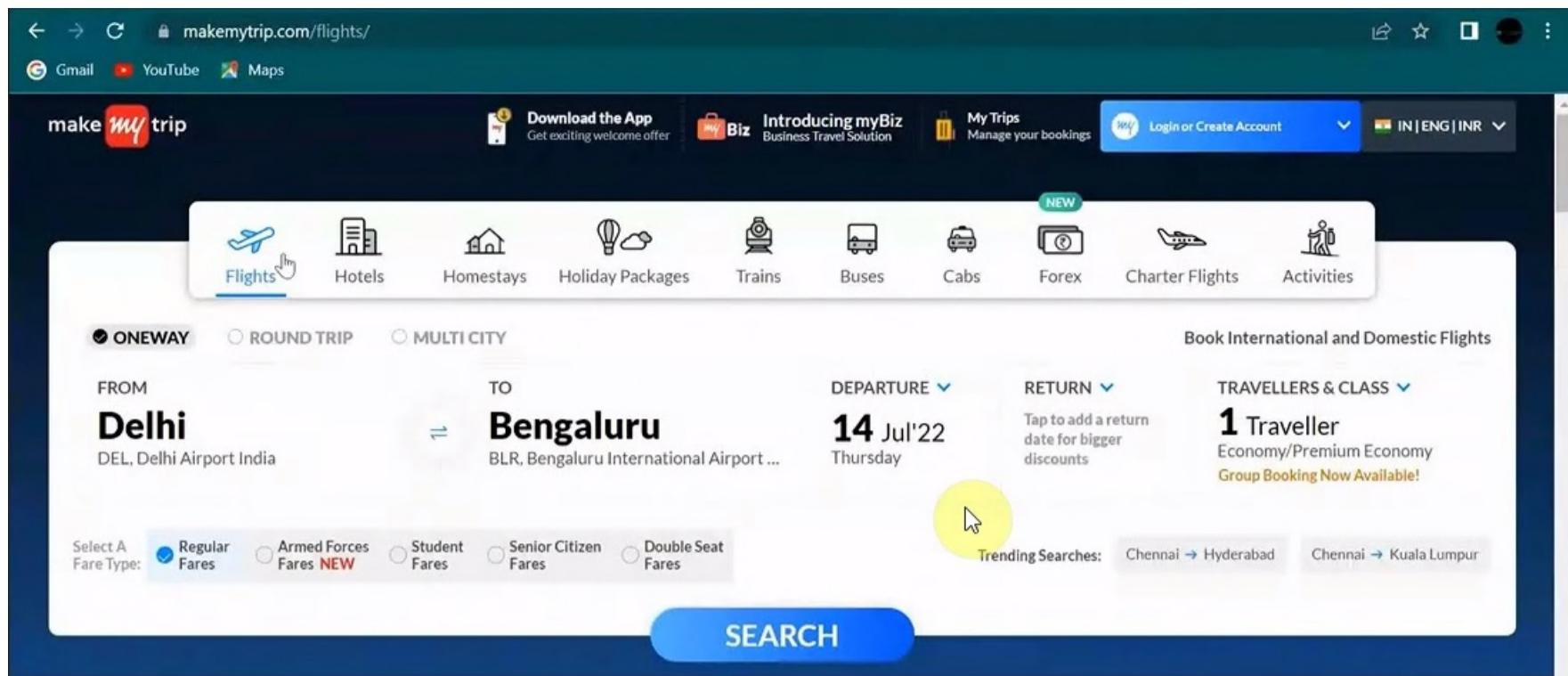
Backward
Even if traceability matrix satisfy 100% requirement,
still there might be a chance to get defect

Write Test Case

Review Test Case

↳ Traceability matrix

If any defects are there, we will catch in execution.



BRS — flights . *mapping.*

BRS	SRS	Test case
	one-way	1. R4·0_Make my trip - flights - Oneway - from 2. R4·0_Make my trip - flights - Oneway - To 3. R4·0_Make my trip - flights - Oneway - from != To 4. R4·0_Make my trip - flights - Oneway - Departure. (Here Return won't be there.)
Flights	Round-trip	1. R4·0_Make my trip - flights - Oneway - from 2. R4·0_Make my trip - flights - Oneway - To 3. R4·0_Make my trip - flights - Oneway - from != To 4. R4·0_Make my trip - flights - Oneway - Departure. 5. R4·0_Make my trip - flights - Oneway - Return
	multi-city	

Requirement Traceability Matrix_SIT_R4·0 .

- ① write All test cases that we have
- ② Do bulleting.

In traceability matrix → Every scenario must be there .
 (-: client reviews this).

mapping
Each of every scenario is mapped so that nothing is missed.
If any scenario is missed \Rightarrow They will catch us.

We have to send it to BA if he will review that
RTM document.

Duration

for making - 1 day.

for review - 1 day.

forward Traceability Matrix

Suppose one scenario in the traceability matrix is missed. At that time they will catch the issue.

In such scenario, we have to come back to our test case, we have to update test cases along with traceability matrix.

Such Traceability matrix is known as forward traceability matrix.

backward traceability matrix

Even if traceability matrix satisfy 100% requirement, still there might be a chance to get a defect during execution. In that scenario we modify the test case & update the traceability matrix. Such Traceability matrix are known as backward traceability matrix.

Defect Mgmt Process

Tool - HPALM.

MTM → microsoft Test Mgmt.

Mantis

JIRA - Agile project mgmt tool.

What is the version of your HPALM?

HPALM → version → latest → 16.0.1

Q. What is the history of HPALM?

It came into picture in 2004. Company name - mercury.
In 2006 it got updated f name changed to MQC i.e.
mercury Quality centre. After that in 2010 HP bought this
product f it became HP Quality centre i.e. HP QC.
Afterthat name got changed to HP ALM i.e. HP Application
Life cycle mgmt.

2004 → Test director mercury

2006 → mqc Mercury quality centre

2010 → hp quality centre - hp qc - 10.

hpalm → appln life cycle mgmt.

Q. What is the full form of HP ALM?

HP - Application Life cycle mgmt.

Q. How do you login in HPALM system?

While login in HPALM there will be 4 tabs.

- ① Name (User Id)
- ② Password
- ③ Domain
- ④ Project -

From where do you get password?

We will receive password from client.

This password will get individually all of us.

Domain

Make my trip.

Project

On which module we are working.

Suppose we are working on - flights.

⇒ project = flights

The screenshot shows a web browser window for the HP Application Lifecycle Management (ALM) system. The URL in the address bar is `http://localhost:8080/qlm`. The page title is "HP Application Lifecycle M...". The main content area is titled "Application Lifecycle Management" and features the HP logo. It contains a login form with the following fields:

- Name:
- Password:
- Automatically log in to my last domain and project on this machine
- [Forgot password](#)
-
- Domain:
- Project:
-

What are the components of HP ALM ?

or

Attributes

or

parameters

managers' task {

① Dashboard

② Management

③ Requirements

④ Testing

In testing there will be

Test resource

Test plan *

Test lab *

Test runs

Note!!

All the headers of
Detailed splitting of testing
should be tell during
interview.

(+ This is our main
work as tester)

⑤ Defects

Q. Describe Everything.

① Dashboard:

Dashboard represents graphical representation of defect report statistics in term of pie charts & Bar chart.

Have you involved here?

yes.

② Management

i) Releases includes release mgmt.

ii) Libraries which package we want to deliver.

If includes project scope, risk, planning

Have you involved here?

Never got chance.

(We don't have even access of it).

③ Requirements:

i) Requirements

ii) Business Models.

defines requirement mapping with prepared test case.

Have you involved here?

yes.

requirement mapping-

There will be button, just we have to click that,

of mapping will be done.

④ Testing

- i) Test resource
- ii) Test plan
- iii) Test lab
- iv) Test run.

i) Test resource

Here resource allocation is done. how much work is done by whom all these kind of details are stored into it. It is also known as Resource planning.

ii) Test plan

1. Create test suite | batches
2. Design test case
3. Uploading i.e. importing the test cases.

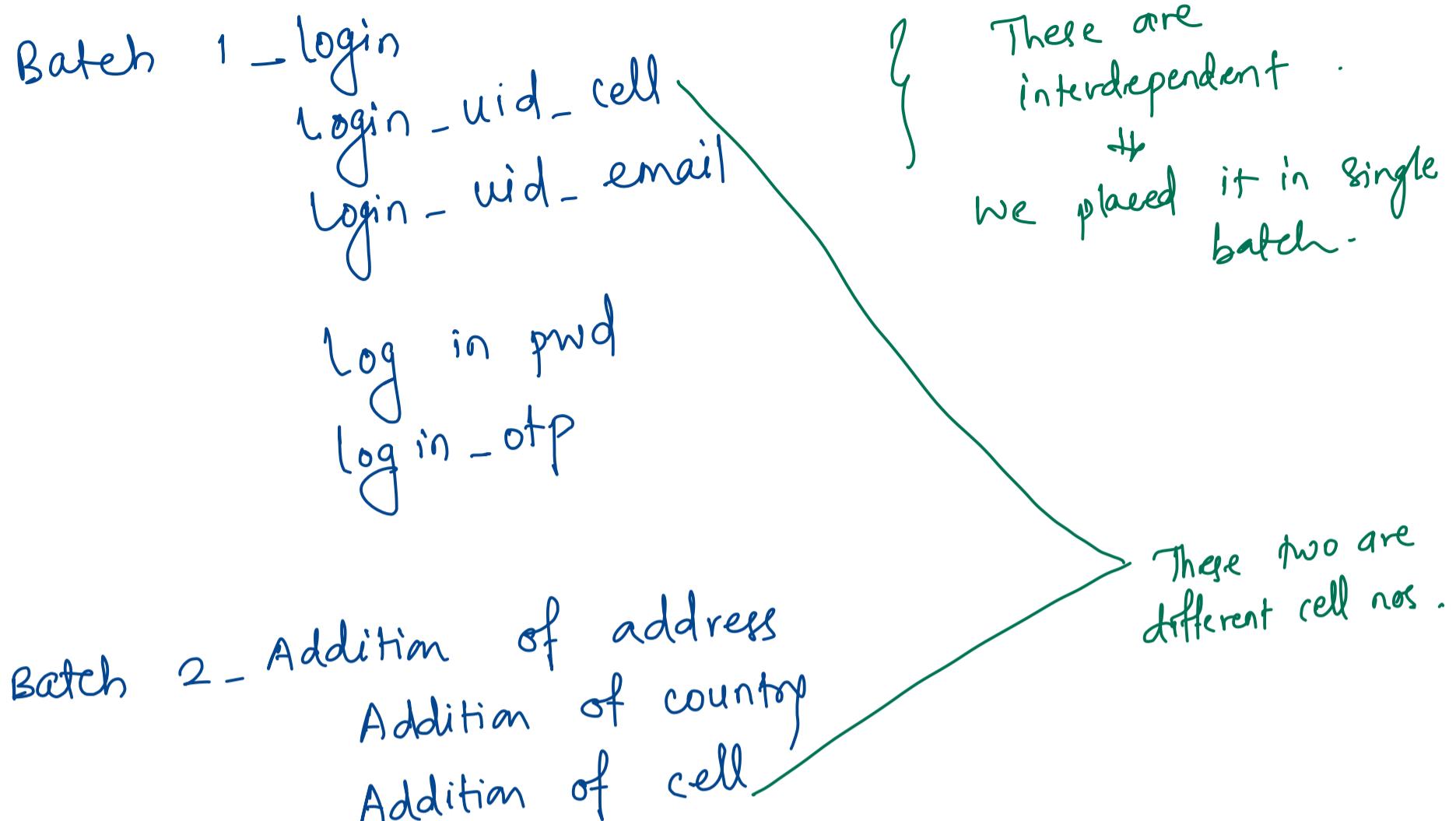
Q. What is test suite | Test batch | Test bed ?

It is nothing but clubbing of all interdependent test case.

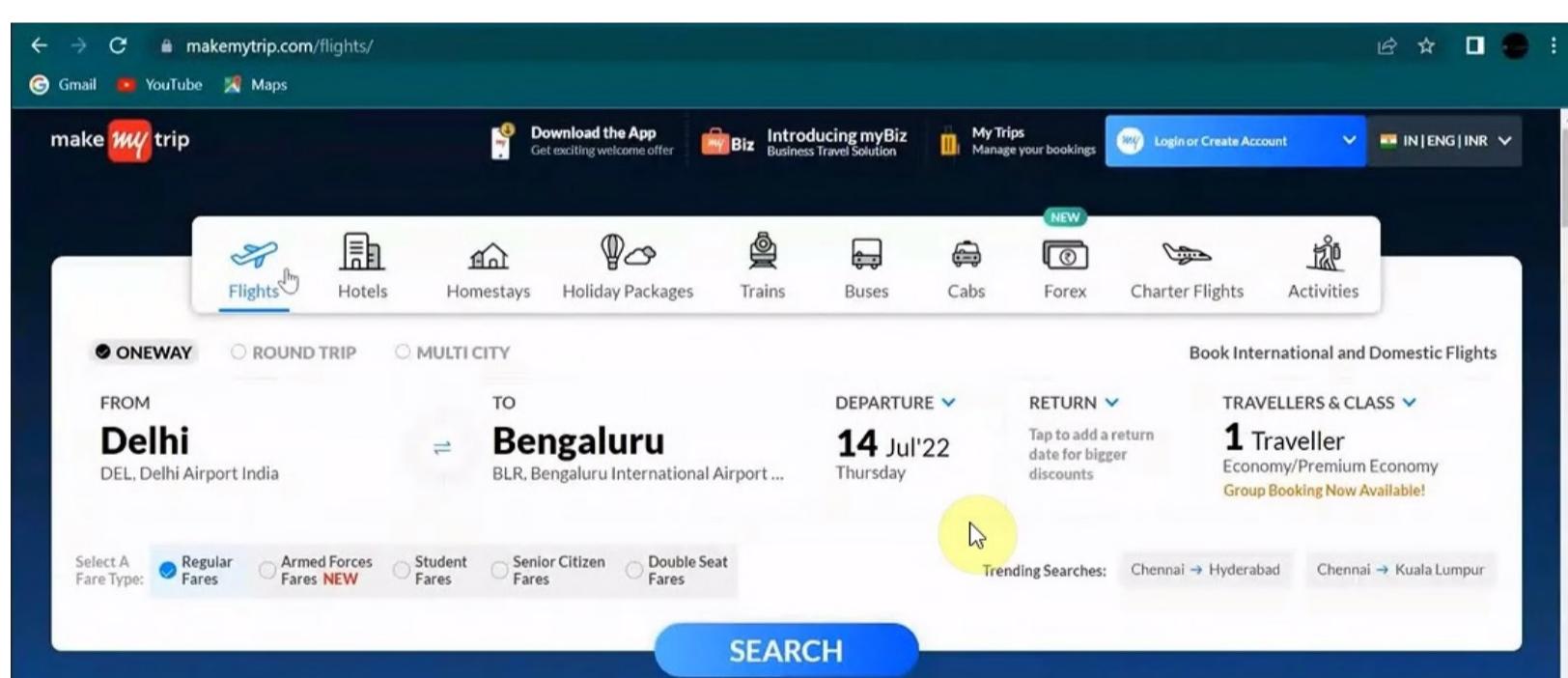
How will you interdependency ?

Depends on functionality for that we have to know system.

Suppose we have login module in amazon.



Batch for MMT



Batch 1

R4-O - Make My trip - flights - One way

R4-O - Make My trip - flights - One way - from

R4-O - Make My trip - flights - One way - To

Here from f To are interdependent.

If from is wrong then we don't need to test for To.

What are the advantages of preparing Test Suite?

What if we don't club interdependent test cases?

What if we don't create Test Suite/Test batch?

Suppose if defect in one of the Test case
is dependent on that case is clubbed with another
group then at that time testing that dependent
test case simply means we are wasting our time.
Because unless if until we don't test earlier test case
there will be no use of going forward.

⇒ It saves time.

e.g
~~if~~

Suppose there are two Test Cases

- ① Order id generation
- ② Invoice generation.

If we club them then
if order id is not getting generated then we can
simply stop there & save time
But at the same time if we didn't club it
then even if order id is not getting generated we will
face invoice generation. At that time we will face
difficulties as order id generation & invoice generation
are interrelated.

Interview

What are the advantages of Test Suite?

It will help us to handle the test case execution mechanism smoothly.

How will you create Test Suites?

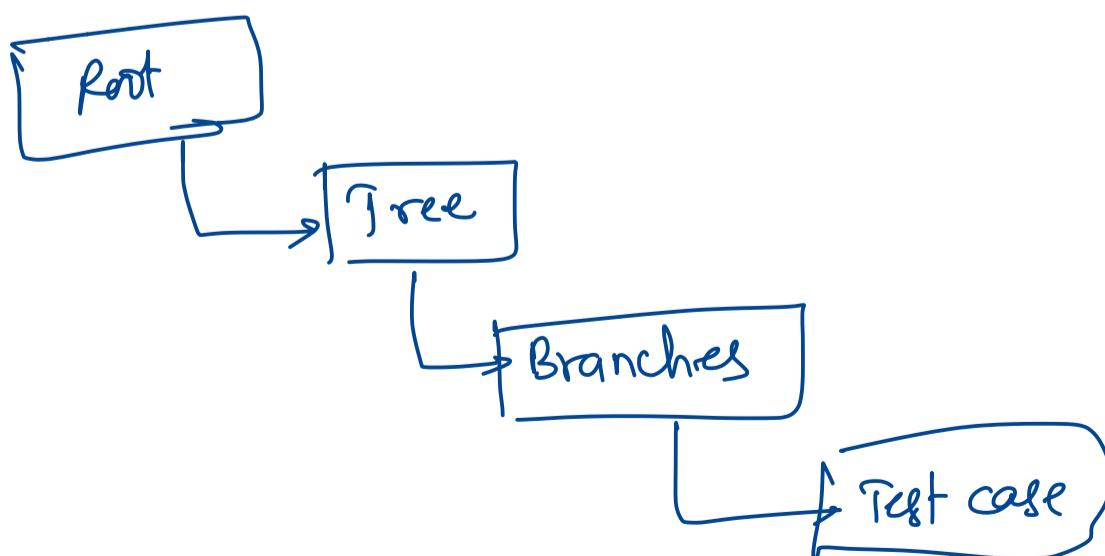
The screenshot shows the HP Application Lifecycle Management interface. On the left, there's a navigation sidebar with sections like Dashboard, Management, Requirements, Testing, and Defects. A specific item under 'Management' is highlighted with a red arrow and labeled 'Root'. Below it, under 'Testing', 'Test Plan' is also highlighted with a red arrow and labeled 'Tree'. Under 'Tree', there's a large curly brace labeled 'Branches' pointing to several items: 'Subject', 'Unattached', 'Application 1 <Clarity_ID>', 'Application 2 <Clarity_ID>', 'BCoP', 'CFAL', 'Dealer Commission Solution', 'Dealer Commission Solution Drop2', 'Divisional Release', '2019 Releases', 'April Release', 'Deal Tracker', 'System Test (ST)', 'CFAL Tracker', 'TC01_To verify crossed details', 'TC02_To verify tracker status', 'TC03_To verify tracker status', 'TC04_To verify Customer Obj', 'TC05_To verify Data Submissi', 'PKE Items', 'SSRS Reports', and 'STG Tracker'. To the right, there's a main panel titled 'Details' showing a table of test steps with columns for Step Name, Description, and Expected Result. At the bottom right of the screenshot, there's a watermark for 'SCODEEN GLOBA' with contact information: 'www.scodeen.in', 'hr@scodeen.in', and 'Mobile No. 8799820'.

click on the Test plan

Subject → known as root.

Whatever inside it is known as tree.

In one tree there will be many branches.



Root

(Subject)

Tree

R 4.0 - MMT - Flights - Oneway

Batch 1

R 4.0 - MMT - Flights - Oneway - From

Batch 2

R 4.0 - MMT - Flights - Oneway - To

Batch 3

R 4.0 - MMT - Flights - Oneway

Batch 4

} multiple
Test cases.

How to create new Batch?

Right click → new batch

ii) Design Test Case :

We design test cases in Excel.

Although you can design test cases in HPALM then why do you design test cases in Excel?

Sir, Although we can design test cases in HPALM but actually, HPALM is a server. Hence we might face the performance issues. So designing test cases in HP ALM is not a suitable scenario.

Where are these test cases designed in HP ALM ?

Sir, we design the test cases in test plan.

① go to the test plan.

② Go to specified path of test cases

click on that specific test case

③ We will get steps / structure of that test case.

The screenshot shows the HP Application Lifecycle Management (ALM) web interface. The top navigation bar includes links for Tests, Edit, View, Favorites, Analysis, and a search bar. The main area displays a hierarchical tree view under 'Name' with categories like Subject, Unattached, Applications, BCeP, CFAL, Dealer Commission Solution, Dealer Commission Solution Drop2, Divisional Release, 2019 Releases, April Release, Deal Tracker, System Test (ST), CFAL Tracker, PKE Items, SSRS Reports, and STG Tracker. To the right, a detailed view of a test case is shown with tabs for Details, Design Steps, Parameters, Test Configurations, Attachments, Req Coverage, Linked Defects, Dependencies, and Bus. The 'Design Steps' tab is selected, showing a table with columns for Step Name, Description, and Expected Result. The table contains six rows corresponding to the steps of the test case. A yellow circle highlights the word 'Decision' in the expected result of Step 3. On the far right of the interface, there is a watermark for 'SCODEEN GLOBA' with contact information: www.scodeen.in, hr@scodeen.in, and Mobile No. 87998201.

Here Description ~ Action/ Event.

④ Do refresh

⑤ for understanding purpose of end user,
we want to add something in test cases.
in the form of attachment.

So \Rightarrow a click that particular test case

b Add that attachment

Note

Make sure attachment will be in
JPEG/PNG format so that it will take less
space.

Interview

Q. Can you add more columns in HPALM?

Yes

Step Name	Description	Expected Result
Step1	Login to Drive Online with ctal browser	User should be able to login to Drive Online.

Interview

Q. How to upload test case excel to HPALM?

Sir generally,

- We have to install an add-in (This will be done by M/c engg).
- ① We have to install an add-in (This will be done by M/c engg).
 - ② Then we have to export data-view → Export click
 - ③ for that we have to provide → path of HPALM.
 - credentials.
 - Suite path.
 - ④
 - ⑤
 - ⑥ After that, it will ask us for mapping.
In mapping we have to map the columns of excel with HPALM columns.

- Excel	HPALM
.	

Q. What are the issues you have faced while uploading Test cases in HPALM?

Q. What are the conditions for uploading Test cases in HPALM?

Q. What are the limitations you know about uploading test cases in HPALM?

- ① The font size shouldn't be Bold in nature
- ② There should be proper sequence no. which is uniquely defined.
- ③ There shouldn't be any gap in bet. rows.

iii) Test lab :

we will do execution
⇒ decide pass/fail of test case.

Name	Test: Test Name	Type	Status	Iterations	Planned Host...	Responsible...	Exec Date
TC001_DCS	TC001_DCS	MANUAL	Passed				11/07/2019
TC002_DCS	TC002_DCS	MANUAL	Passed				11/07/2019
TC003_DCS	TC003_DCS	MANUAL	Passed				11/07/2019
TC004_DCS	TC004_DCS	MANUAL	Passed				11/07/2019

Test lab .

Q. How you move test case from test plan to test lab ?

① We have to create same folder of same subfolders in Test lab .

② If we want to add test cases into particular folder then we have to select tests of this will be enabled only after going to the execution grid.

Name	Type	Status	Planned Host...	Test: Test Name	Responsible...	Exec Date
Smoke Testing						

③ If we click select tests then in the right pannel test plan tree will be created. From there we have to simply add tests to the test set by selecting specific test case.

The screenshot shows the HP Application Lifecycle Management interface. On the left, there's a navigation sidebar with categories like Dashboard, Management, Requirements, Testing, and Development. The main area has tabs for Test Sets, Edit, View, Tests, Favorites, and Analysis. A sub-menu under 'Test Sets' is open, showing 'Select Tests' and 'Run'. Below this is a 'Test Plan Tree' section with a tree view of test cases. To the right of the tree is a 'Test Set Details' grid table with columns for Name, Type, Status, Planned Host, and Test. The table contains three rows: American Express (MANUAL, No Run), MasterCard (MANUAL, No Run), and Visa (MANUAL, No Run). At the bottom, there's a 'Last Run Report' section stating 'No results found.' and a 'Steps Details' section. The status bar at the bottom right shows 'Server Time: 5/29/2017 6:37 PM'.

If we simply add one test case then whatever instances are present in Test configuration all those will be added here.

In this way we can add other test cases also.

Note Watch below video of tutorials point.

<https://youtu.be/IRQ8N0gD6nQ>

Q. What are the functions of Test lab?

1. Test case movement from test plan to test lab
2. maintain the test case execution status.
3. generate report
4. Link the defect.

Q. What are the different Test case execution status?

- ① pass
- ② failed
- ③ no run. → execution still not started.
- ④ not completed → corresponding parent functionality failed.

e.g. Order id → invoice generation.
Here if order id is failed then,
it won't go to invoice generation.

- ⑤ de scope. → out of requirement scenario.

↳ Here we have already write test cases
But after a while client says its out of
requirement - i.e. requirement changed.

Q. How will you generate report in HP ALM?

- ① for generating report we can go to the Analysis tab choose particular option for project report.

- ② we will get preview of that report .
If we want full report then go to the generate report in left corner cancel it then again go to generate report & choose specified option as below .

- ③ In this way we can get reports .
④ Even we can generate report for single test case.

④ Link the Defect

Q. What is the linking the defect?

Defects can be linked with different artifacts

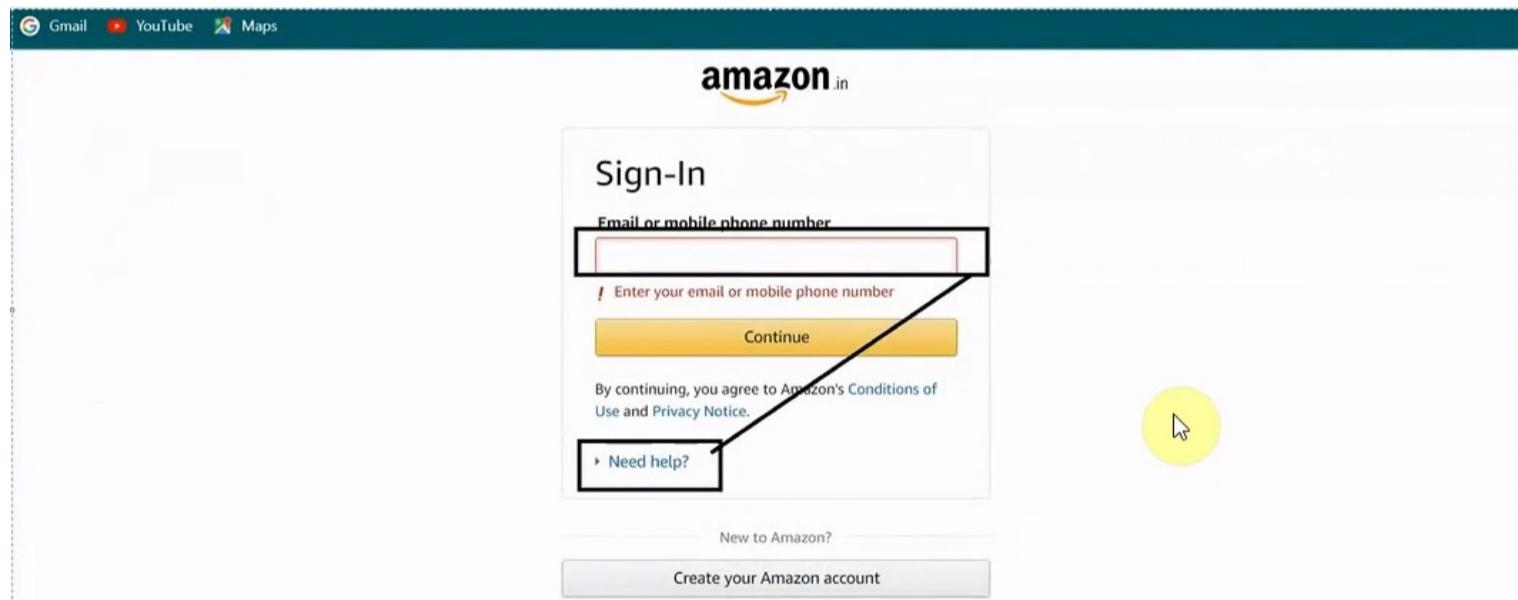
- Requirement
- Test plan
- Test cases
- Test run.

Q. How will you lock the defect?

Q. How you report the defect?

Sir actually for locking defect we use HP ALM.
While execution of an application, if we got defect then we have to take screenshot of it.

Note!! while taking screenshot URL must be visible.



- ② Save that screenshot in specified folder.
- ③ Give proper naming to that defect.

R4.0 - canarabank-SIT - Activate uid_Defect #d.jpg.

Note!!
Always save in jpg format

tpac.com.au/qcbin/start_a.jsp

cycle Management

Domain: BUSINESS RANKING Project: SOVEREIGN

New Defect

Edit View F

Defect... X |

Actual Fix Time[54]

54

54

Actual Fix Time

54

54

Attachment

DCSS2

Comments:

Submit Close Help

Summary: []

Details Business Assessment

Attachments

* Application: [] * Assigned To: []
* Automation: [] * Brand: []
* Detected in Cycle: [] * Environment: []
* Execution Phase: [] * Module: []
* Phase Detected: [] * Priority: []

Description:

B I U A ab | |

Q. What are defect components?

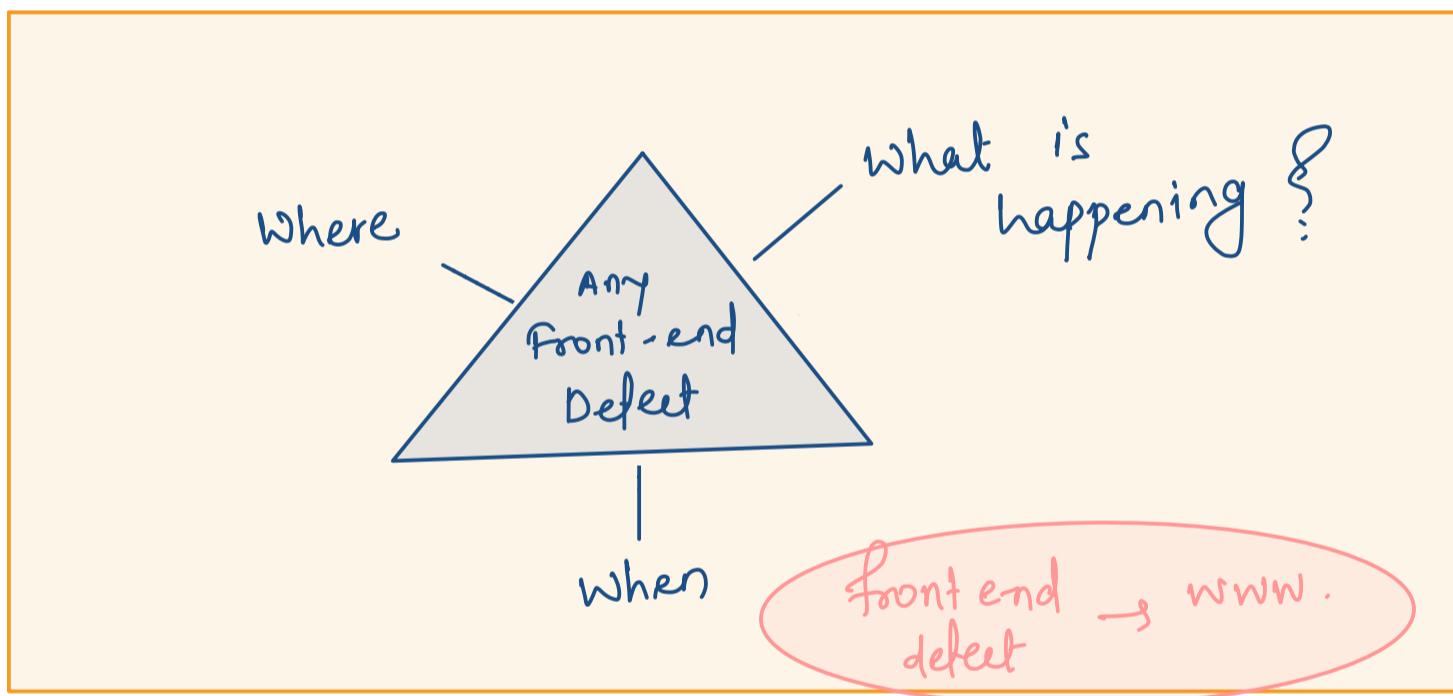
Q. If you find defect, what will be approach?

1. We will lock the defect on HPALM.
2. We have to start test execution with independent batch.
I mean if we have defect in Suite 1 then we need not continue Suite 1, we have to move on Suite 2.

Defect Summary

R4.0-SIT - Amazon - Login :

This is for easy search mechanism.



What is happening?

We should mention what is exactly happening

But

While raising defect we shouldn't say

What should be there.

- Always maintain High level information.

e.g

Issue 1

On mobile number text box it is accepting wrong data.

Mobile number should be numeric
↳ wrong approach.

Defect

What →

'Mobile number' Text box is accepting improper data
during addition of New page

When →

in 'Add a new address' page

Where →

Issue 2

Suppose we can't see country 'India' in drop down.

Defect

Country is not getting displayed in 'Country / Region' dropdown
in 'Add new address' page.

Issue 3

Error message is not properly displayed.

Defect

Improper error message is getting displayed
for invalid zipcode
in 'Add a new address' page.

What →

for invalid zipcode

When →

in 'Add a new address' page.

Where →

Database Defect

Q. Can you please tell me some database related defect?

Issue 1

Order is not getting generated during invoice creation in Backend.

Issue 2

Transaction Id is getting replicated twice in database.

Issue 3

Invalid datatypes for "Transaction id" in database.

ETL defects

e.g. Source of target data is not getting matched.

- ① Source of target data is not getting matched from source of target.
- ② Count value is not getting matched.

System Integration Defects

- ① Request Id is not getting generated for product order processing.

- ② Data sent in request i.e.
subscriber id
subscriber name
cell no.
address

{ Is not going.

Defect

Invalid data is getting displayed in request file for order processing.

③ Suppose server name is payment gateway
Issue: Response is not getting generated.

Defect

Response is not getting generated

or

Amazon application is not receiving response
for order processing transaction from
payment gateway server.

④ Issue: XML parsing.

Date format is not matching.

Defect

Request of response file data is not getting matched
for subscriber name of id.

Note

All defects regarding database, system integration,
ETL, BI will be considered as 'critical' defects

As they are backend defects.

Q. Can you tell me some critical defects? ↗

Requirement in system Integration

Suppose - Invoice generation is the requirement.

Track packages

Requirement

Amazon - order processing - Track packages.

How to test system integration

- ① Whether request file is getting generated / not.
All data in request file is going / not as per requirement.
- ② In front end order status is processing / not.
- ③ At the back end status must be 'O'.

Defect

→ Status is getting displayed in front-end but not in data base for 'track package'.

Note!!

Here we can ask developer for status in Backend for ordered.

Status	
ordered	O
shipped	S
Arriving today	AT
Arrived	A

Q. Defect components ?

Detected by :

Severity :

Assigned to :

Defect category

closed in build :

closing date :

detected in cycle

detected in version

estimated fix time

Detected on date

actual fix time

caused by code change

closed in version

detected in build

detected in release

detected in environment

planned changed version

Status

Priority

regression

Project .

Detected by - Our names comes by default. — Tester name.

Severity :

Assigned to

Q. To whom you assign the defect?

We assign defect to the responsible person from developer end / pm / project lead.

Defect category | classification:

GUI

Functional

Backend (ETL, BI, System integration)

Design

Requirement

Environment

Closed in build

Closing date

We have to leave it As we are filling first time
We will fill this at the time of defect closing

Detected in cycle:

In which cycle we got defect

SIT | Regression | UAT | Preproduction.

Detected in version

In which build line version we got defect.

i.e. 26.0.

Estimated fix Time :

Based on criticality developer will fill this that how much time will he require to fix the defect.

e.g. 3 days, 72 hrs.

Detected on date

17 July 2022

Actual fix Time :

Caused by code change :

It is also known as root cause analysis.

Backend/ frontend -----

If dropdown \Rightarrow just choose from that.

Closed in version

In which build line version the defect has been closed.

i.e. 27.0.

Q. What is defect age?

It is nothing but, time gap between detected defect & closing defect.

Detected in build:

on which build line we got this defect.

e.g. SIT buildline
UAT buildline.

Detected in release

R 4.0

Detected in environment

IE 11.0.

Regression

There will a dropdown

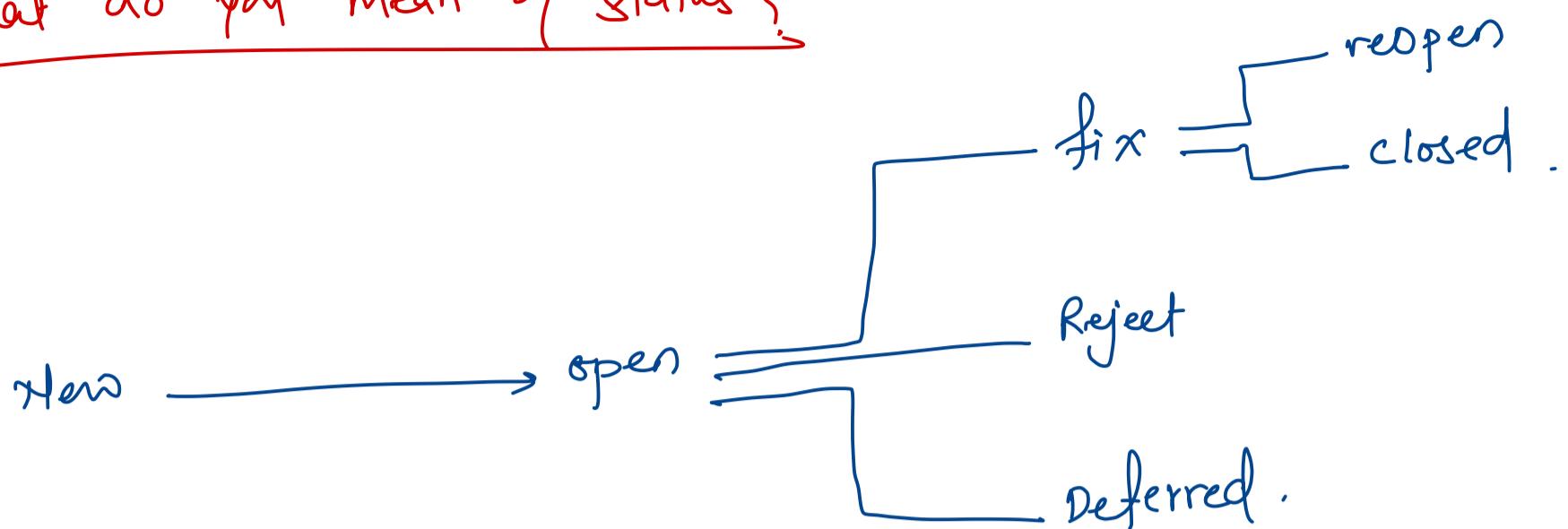


What will be there by default?

By default there will be No.

Status

What do you mean by status?



There will be dropdown if we have to choose from that.

In some tools like JIRA, Mantis

Here terminologies will be

new ~ initial

open ~ analysis

{ There might be
- Change of arguments.
in interview-

New defect

Very first time test engg log the defect.

Open

Under analysis's stage by developer.

fix

Dev. agreed to provide soln?

Reject

Dev. did not agree to provide soln?.

Deferred

Deferred defect means developer agrees to give fix but in later version due to functionality interdependency.

<u>Severity</u>	<u>Priority</u>	<u>Time</u>
urgent	Catastrophic	1 hr (Blocker)
very high	very high	12 hr
high	high	24
medium	medium	48
low	low -	72 hr

What is the difference bet? severity & Priority?

Severity
It defines criticality of the defect wrt functionality.
I mean to say how much the system is getting impacted with this defect.

Priority
It defines importance of the defect wrt customer requirement.
I mean to say how much the system is getting impacted with this defect.

(critical defects) \Rightarrow High seniority, High Priority

All backend related defects should be considered as critical by nature.

e.g. Database, etl, BI, System integration, file processing.

High Priority, Low Seniority

① In front end order status is not getting changed.
But at Backend its changing.
 \Rightarrow system is not impacting but its impacting end user \Rightarrow i.e. Business-

② Account id is not getting displayed with encrypted format.

Expected
***** 567

Actual
98741567.

\Rightarrow Here we have backend data.
 \Rightarrow System is not impacted
 \Rightarrow Business is getting impacted.
But Business is getting impacted.

low priority, low severity

All GUI related defects are low priority, low severity
defects.

~~Lag~~

Error msg is not getting displayed properly.

Med

Front end functionality related defects are considered
as med

Description

Improper subject line for 'flowpath' export Email.
This defect is pertaining to R4.0 Payment integration project name

Steps to Re-create / Navigation

1. Login to application. (https:// application URL)
user id - abcde
pwd - 12345
2. Select 'Country name'
3. Enter ---
4. ---
5. ---
- ?

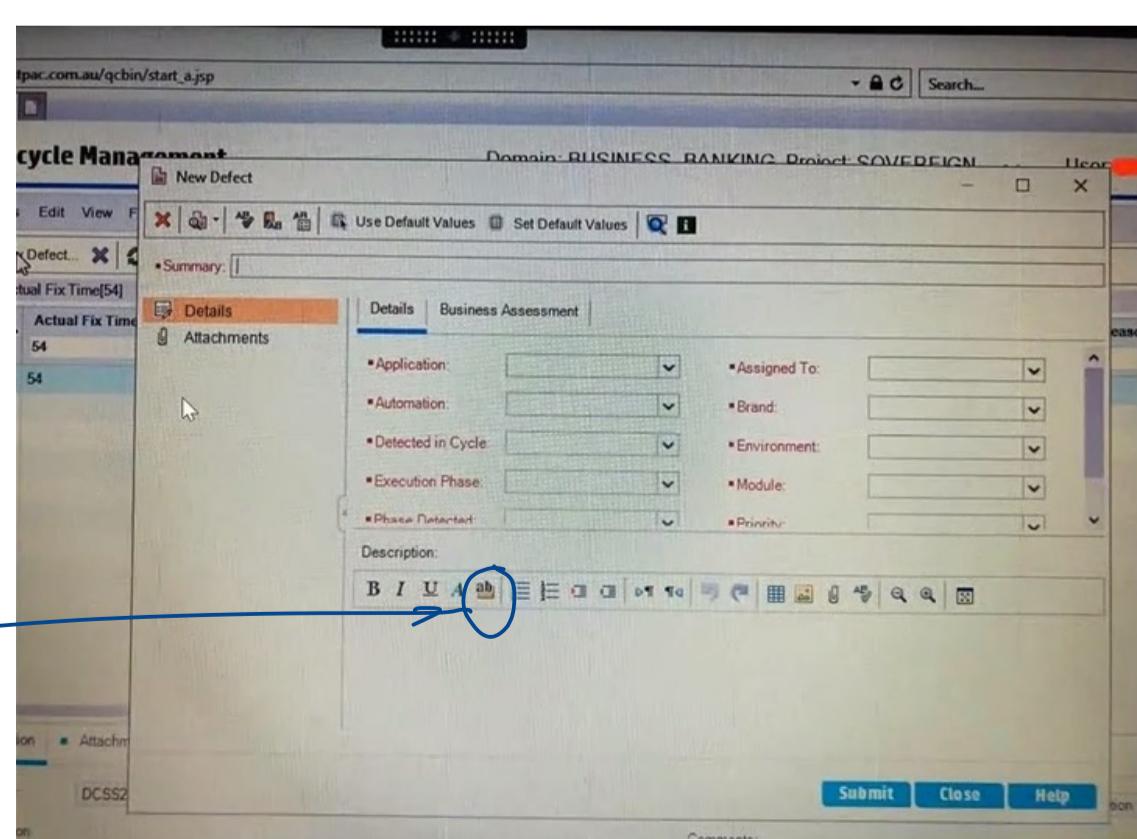
Expected result :

Actual result :

Build Line : 26.0

Test data :

This above description
is pasted into
this ab box.

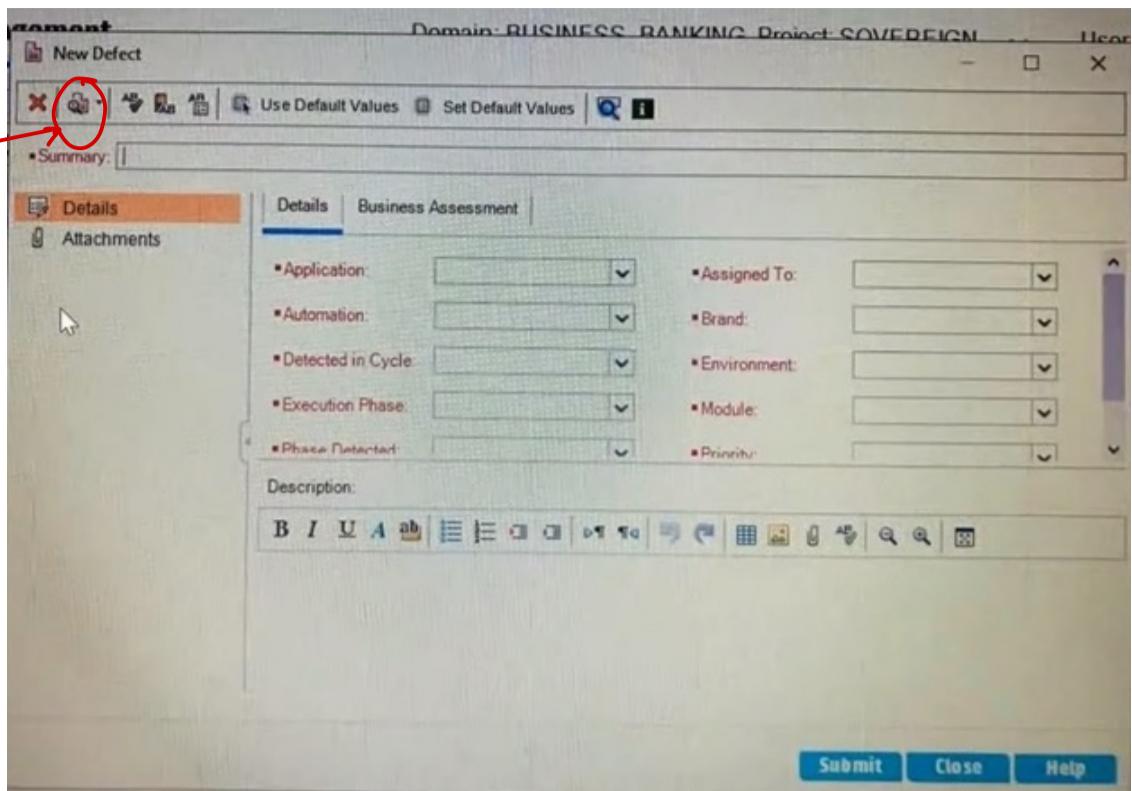


Q. How you send defect to Server ?

There is an email server in HPALM

As soon as we click this
there will be an
email server.
It looks just like outlook.

To : dev pm + Testing team
+ Testing pm



Send.

What is defect id?

It is autogenerated.

After that developer will give us reply of
we will have further communication.