Ilflunt types of Testing La Unit Testing
La Tutegration Testing 4 Functional Testing - Best bractices of Writing VIs Unit Something very small which cannot be broken further vois substitute () }

1 or More Unit Tet for a public Methods

what are we testing here?

-> whether our code handles all Scenarios correctly or not cless Calculator int add (int a, int b) {
return a + b;
} int multiply (it a, itb)

{
return a \* 6.

int get Element by Index (it of I, int index)

Test Sconorios ->

Sad Arr = NULL index = any Nuber

Sad Arr = [], videx = any Nuber

Sad Arr = [1,2,3] index = 3 (Size)

Sad Arr = [1,2,3] index = -1

Happy Edge Arr = [1,2,3] index = 0

Happy Edge Arr = [1,2,3] index = 2

Code Corvege -

/. age of your source code which is covered by one or more unit test

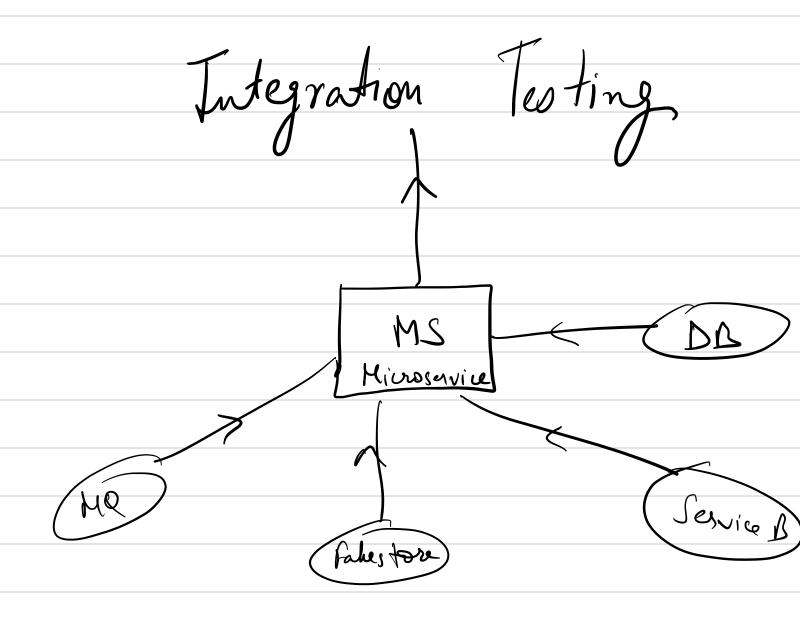
int get Elemently Indeed int a (7, int videx) }

if (videx < 0 (1 index >= a. Sine())

return a [undex].

 $\frac{2}{3} = 66^{-1}$   $\left\{ 1, 2, 3 \right\}$ , idex = 1

100%



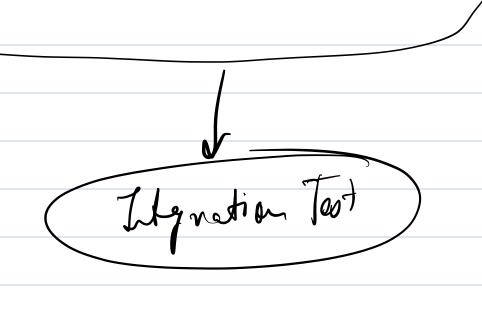
Product Store
Scrvice

APZ

→ Once a day Tire Trigger?

→ Thyrok in CICD lipeline of Run after each Ph completes S Event Trigger & Add new Ity ration
Test whenever Jon add a new frediovality

"title": " "description": 1 Codegory : 1 \_\_\_\_ " price": " a recei state: "ACTIVE" "Body": 5 4 7 ... " description 4 price



Conchional Costs

Behavior of a System

Facebook / Tusta

Jelling a profile

Phrend / Unfried

Phile pollur / share / conet

The Creak a page

There a page

-> block / Report Creating a profile Ly DB La Email / SMS La Cache Furtional Testing Means testing a system like a real Customer Fundional Testing

Titegration Tot MS Internation Test 10-12 Unit Test 20 (102 Hore U? for

Best Practices be Worting UTS

1. we should write on UT

quickly

Arrange -> create

Act -> Call

Assert -> Check

Arraye means create object of a class whose methods we are

going to test

cret	e Moch of External. other things whatever r	Defend
Act	means calling the fund	tion
	means calling the fund which we want to test Atore result in so Variable	ne e
Assert	meons checkie I see	clived
	meons checking if reconstruction matches texperients and the result or not.	ted
les	Calaletor &	
	int add (int a	it b

void test Add () { Arrole Colculetor C = new Colculetor (); M'int res = c. adel (5, 6); Assert (res = = 11) UTs should be refrestable 2/ In Contrary, your Integration Test on fil sonations

UTs should be Andonatic Hamol Topte an always Hard coded 4. UTs should always test (i/1 & off) behavior & not uplementation.

1.10

multiply (it is, it b) }
reduce a \* b; meltiply (int a, idb) } mit for ( it i=1; i<2b; i++)}