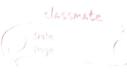
	Date - \$ 04/05 2023 SMALE	
	Date Page	
	SPM chapter :-2	
	Cost Estimation :-	
L	Co Co Mo - I & IT (cost constructive Model)	
2.	FPA - Function Boint Analysis	
3.	Delphi	
	atb=c	
	Input a = 3 b = 4	
^		_
Pytho		
a	= "mput (Enter number] !")	
b	= input ("Enter number 2 :")	
	print ("The addition is: "c)	
	priva (In acaition as i	
	KLOC = 1000 lines of code	
	COO STATE OF THE S	
	+ Scope - modules	
	granthe - RESK (REK ugmt)	
	- Orze (Duration)	
	- Cost - COCOMO I & IT	
	Resources	
	+ schedule	
	size ugut :- Size ugut	
	Time cost,	
	Resources Attocation	
	Scheduling	



FPA :- Function point analysis - Allan albright in 1970 in south california five units :-EI (External Input II) 2. Eo CExtornal Output ED (External Enquires) 4. IJF (Internal logical Miles) 5. EIF (External Interface files) - It is developed by allan albrecht in 1940 in South alifornia university for purpose of size estimation - FPA estimate the size of software as per the user's perspective. - FPA mainly works on five units associated with

For EI, EO and Ed all are associatively user &

ED system for sharing data/ queries, so it

Called as a data processing units. system in highly impossible so they called as a transact processing units.

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Date
Fige

wen Enquiries. System Question (Problem Stront) weighting factors Average low E 0 10-10 FIF By considering the suggerement documents there is a need to identify the count of all five units along with their meightage (low, ang, high Note: - If weigtage is not given in a requirement doct problem struct then by dejoult the use values of Aug maighing factor

meighting factors of every units are as Jollouls

1> UFP > undefined Junction Point / function Count

Count of each un

By using Junctional units need to Calculate unadjusted Junction point (UFP) by using Jollouing Journala

UFP = Z Z Z Z Z W W J

where i oblined sow and i indicate Column

It is a summation of sultiplicat of every functions units with their neighbing factor.

= EI. ME + EOX MIE + EO, ME + ILE XW.E + EJF.WP"

EJ = 40x4 = 160

EQ = 30 XS = 150 EQ =20x4 = 80

JLF = 10×10 = 100

FIF 25X7 235 UFP = 525

For a Calculat" of Complexity adjustment jactor need to consider 14 Jactors which are associated with internal part of the software E its executive

Does Do Tous the system require reliable backup Ex recovery

Is data Comm. Juquired? Are there distributed processing functions 20 perjoumance Cratical

will the system ruen in an existing heavily willzed 5.



operational environment? poes the system online data entry? 7. poes the online data entry require the input transaction to be built over multiple screens or operations? Are the files updated online? Is the internal processing complex? as the code duigned to be reusable? 12. Are Conversion & installation included in the design? 13 It the system designed for multiple installations in dif organization? 14. Is the applicath designed to facilitate change E case of use by the user Rate Jactors = No Inci- Moderate Aver Significant Essential.

Influence durical 5 fo = addition of alethre rating of each Jactor. Note 5- by hating preferences is not given in problem stant them by abjacent need to Consider avg value.

Function points or Punct" count Calculated by

curing following Jounula

FRIFC= UFF + CAF where CAP = 0.65 + 0.01 x ? !!

Qxx Cousider a project with following functional enough,

I No of user inputs - 50

2 No of user outputs - 40

3 No of user Enquires - 35

4 No of user tiles

65 No. of External Interfaces - 9

Assume all Complexity adjustment to neighbing facting Jactors are any

Compute the Function points for the project

UFP = 50x4 + 40x5. +35x4 + 6x10+4x7

= 200 + 200 + 340 1 60 + 28 1 OFP = 628

CAF = 0.65 + 0.01 X & A

SFi = Addition of Justing Jactors.

= 3+3+3+3+3+3+3+3+3+3+3+3+3+3+3+3

Sfi = 42

CAF = 0.65 +0.01 × 42 + 0.65 × 0.42 = 1.07

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J. 2. Consider Jollaning Junctional with for persect 1 Noof West user IIP = 60 with high weighting Jactor 2. No of user off = 55 with high 3. No of user Enqueries 32 with 4. No of user files = 12 with high -5 No of External Introduces = 7 with low weightage. Apart Juan this system requires I. System suguire sullable back & sucousing. 2. Moderately data Comm is suguired. 3. Master files must be applated online. 4. Internel processing is complex.
5. Code will be moderately usable.
6. Significantly Conversion & installations included in design.
7. Remaining Jactors will be freated as any. Compute the Junction point for the project UFP = 60 X 6 + 55 X 7 + 32 X 4 + 12 X 15 + 7 X 5 360 + 385 + 128 + 180 + 35 CAF = 0.85 +0.01 X & Ai Sfi = 1+2+5+8+2+4+24 = 4500 47 = 0.65 +0.01 x 4847 0.65 + 000 0.47 = 0000 1.12

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FP=2715+1.10

= 2716.1

FP/FC P = UFP + CAF = 1088 + FEE8 1.12 = 1218 0 56 = 1219.

9.3. ET = 192 high E0 = 115 Aug E0 = 37 Aug ILF = 35 high

FIF = 45 Avg

Aport from this System requires

2) Performance Griffical

3) Significant online data entry
4) Code will be incidentally reusable

S) scraining factor sig

= 192 X6 + 115 X5 + 37 X4 + 35 X15 + 45 X7

= 1152 + 575 + 148 + 525 + 315 = 001 2715

= 45 + 4 + 1 + 80

= 0.65 + 0.01 xus

= 0.65 + 0.45

2 1016