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Experiment - 9

Aim:- Conduct Function Point Analysis for the project

Theory:- FPA is used to make to make estimate of the software project, including its testify in terms of functionality of software product. The attributes of FPare i) No. of external inputs (EI). ii) No. of External output (EO). iii) No. of external inquiries (EQ). iv) No. of internal files (ILF) v) No. of external interfaces (EIF)

For the project:-

i) No. of the External Inputs :- 16.

ii) No. of External Outputs.. 27

iii) No. of external inquiries :- 5

iv) No. of internal files .. 4

v) No. of External interfaces - 2

For UPF,

	Count	Simple	Avg	Complex
No. of external input	16	3	4	6
EO	27	4	5	7
EQ	5	3	4	6
ILI	4	7	10	15
EIF	2	5	7	10

Questions :-

1) Backup & recovery :- 4
2) Are data communications required :- 2
3) Are there distributed processing function :- 0
4) Performance critical :- 4
5) Existing Environment 4
6) Input transactions over multiple screens :- 4
7) Online data entry :- 4
8) Complex input, outputs, files : 3
9) Online update :- 2
10) Is internal processing complex :- 3
11) Reusable case :- 4
12) Conversion in design :- 4
13) Multiple installation :- 3
14) Designed for change :- 4

$$\Sigma F_i = $$

(sum of all value adjustment factors)

I) Assuming weighting factor to be complex

$$UPF = 16 \times 6 + (27 \times 7) + (5 \times 6) + (4 \times 15) + (2 \times 10)$$
$$= 411$$

$$CAF = 0.65 + (0.01 * 45) = 1.1$$

$$\therefore FP = UFP \times CAF = 411 \times 1.1 = 452.1$$

I)   Assuming weighting factor to be average

$UPF = (16 \times 4) + (27 \times 5) + (5 \times 4) + (4 \times 10) + (2 \times 7)$

$= 273$

$CAF = 1.1$

$FP = UPF \times CAF = 300.3$

II)   Assuming weighting factor to be simple.

$UPF = (16 \times 3) + (27 \times 4) + (5 \times 3) + (4 \times 7) + (2 \times 5)$

$UPF = 209$

$CAF = 1.1$

$FP = UPF \times CAF = 229.9$