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Q. Given data for web based social networking site developed by RBN software developers:

Numbers of user Inputs : 97
Number of user output : 52
Number of User Inquiries : 48
Number of External interfaces : 30
Number of logical files : 60

Assuming that the complexity of the Given website development is average, compute the function point. If the productivity of the RBN S/W Developers is 32 Fp/p-M, and if the salary structure is Rs 1300 per months on average, estimate total cost of the software.

Solution

here,

Information domain value	count	Weighting factor	Fp count
Number of user inputs	97	4	= 388
Number of user outputs	52	5	= 260
Number of user inquiries	48	4	= 192
Number of external interfaces	30	17	= 210
Number of logical files	60	10	= 600

Raw F·p (count total) ⟶ 1650

Now,

we know,

$$F \cdot p = Raw\ F \cdot p \times [0.65 + (0.01 \times \sum F_i)]$$

CAV

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From question the complexity of the Given website is average so,

CAV = 14 X 3 = 42

∴ F·p = 1650 X [0·65 + (0·01 X 42)]

= 1650 X [0·65 + 0·42]

= 1765·5

≈ 1766 Ans.

From question,

productivity = 32 Fp/p-M

salary = RS 13000 per months on average

Now,

Effort = Function point (Fp) / Average productivity

= 1765·5 ≈ 1766 / 32

= 55·18 p-M

total project cost = Fp * (Labor rate / Average productivity)

= 1766 * (13000/32)

= RS 717457·5

$$\text{Est. count} = \frac{S_{opt} + 4S_{ml} + S_{pess}}{6}$$

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Information domain value	optimstic	likely	pessimistic	Est. count	wt	Ep count
no. Input	20	24	30	24	4	96
no. output	12	15	22	16	5	80
no. inquiries	16	22	28	22	4	88
no. of files	4	4	5	4	10	40
no. of external interfaces	2	2	3	2	7	14
count total →						318

Now,

$$F.p = 318 \times [0.65 + 0.01 \times 42]$$

$$= 340.26$$

$$\approx 340$$