Function Point Analysis

Funtional → 5 Non – Functional → 14

3 inputs (simple) / 5 (complex)

3 x 3 + 5 x 6 = 39 (UFP for user input)

UFP = summation (count x weight)

Functional -> Complexity Weight (Low, Medium, High)

Pre defined weights for each characteristic (functional) i.e. for each category.

External

Step 2 Summation of each factor UFP gives you the total value of UFP

Step 3 : Calculate the VAF (by this formula)

VAF = [0.65 + 0.01 x 42)

Ci = 14 questions answers (on scale of 0 -5)

0 -> No Influence

1 -> Incidental

2 = Moderate

3 Average

4 Significant

5 Essential

3 x 14 = 42

All the factors for non functional requirement are significant except 2 which are average and one which is moderate

11 x 4 = 44

2 x 3 = 6

1X 2 = 2

52 Ci [

VAF = [0.65 + 0.01 (Ci)

F.P = UFP X VAF

A given project has **5 user inputs**, **10 user outputs**, **7 inquires**, **5 files** and **3 external interfaces**. All of these are average complexity except 2 of the inputs are complex 2 of the outputs are complex and one of the outputs is simple. Adjustment factor are all **moderate** except that system will require a **significant** amount of the online data entry and it is **essential** that the code is designed with reuse. Calculate the Function Point for the system

TABLE 1: Function point complexity weights.

Measurement parameter	Weighting factor		
	Simple	Average	Complex
Number of user inputs	3	4	6
Number of user outputs	4	5	7
Number of user inquiries	3	4	6
Number of files	7	10	15
Number of external interfaces	5	7	10

370 × 199

UI = (2x6) + (3x4) = 24

UO = (2x7) + (4) + 7x5 = 53

Inquiry = 7 x 4 =28

Files = 10 x 5 = 50

EI = 3 x 7 = 21

UFP = 176

Ci = 12 x 2 + 1 x 4 + 1 x5 = 33

VAF = [0.65 + 0.01 x 33]

VAF = 0.98

F.P = 0.98 x 176 = 172.48