

We use IFPUG standard to analysis Function Points of our project:

1. Use case diagrams to identify project scope and boundaries
2. According to the five basic function types, we can get the unadjusted function points.

External user type	Complexity Level									Total UFP
	Simple			Average			Complex			
	Count	Score	Points	Count	Score	Points	Count	Score	Points	
EI	9	3	27	1	4	4	0	0	0	
EO	2	4	8	0	0	0	0	0	0	
EQ	5	3	15	0	0	0	0	0	0	
ILF	5	7	35	1	10	10	0	0	0	
EIF	1	5	5	0	0	0	0	0	0	
Total UFP			90			14			0	104

3. The complexity matrix is calculated based on the complexity of the external user types, and the function points of each complexity level are obtained by multiplying the number of external user types by the score value. As a result, we get the total UFP——104.
4. The adjustment factor VAF is determined according to the 14 basic system characteristics, and the adjustment factor is applied to the unadjusted function point. We get the adjusted function points. (RCAF = 31)

No.	System characteristic	score
1	Data Communications	3
2	Distributed Data Processing	2
3	Performance	5
4	Heavily Used Configuration	2
5	Transaction Rate	5
6	Online Data Entry	3
7	End-User Efficiency	4
8	Online Update	2
9	Complex Processing	1
10	Reusability	1
11	Installation Ease	0
12	Operational Ease	0
13	Multiple Sites	2
14	Facilitate Change	1
		<b>31</b>

5. Then we can get VAF(Value Adjustment Factor) by

$$VAF = ((\text{SUM (score)}) * 0.01) + 0.65 = 0.96$$

And get FP by

$$FP = UFP * VAF = 99.84$$