Yash Dalwani
C13 2003040
Yash

THADOMAL SHAHANI TSEC ENGINEERING COLLEGE

Software Engineering

Experiment - 9

Aim:-

Conduct Function Point Analysis for the project.

Theory :-

Functional Point (FP) Analysis :-

Functional Point was developed at IBM at 1979 and has been further modified by the International Function Point Users Group (IFPUG).

FPA is used to make an estimate of the software project including its testing in terms of functionality or function size of the software product.

The functional size of the product is measured in terms of function point which is a standard measurement to measure the software applications.

Formula:-

$$FP = Count\text{-}total * [0.65 + 0.01 * \Sigma(f_i)]$$

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Solution :-

The weighing factor is assumed to be simple

Information Domain Value	Count	Weighing Factor	Total
No of user inputs	2	3	6
No of user outputs	3	4	12
No of user inquiries	2	3	6
No of files	15	7	105
No of external files	2	5	10
		Count Total	139

Factors Affecting are :-

1] Backup and recovery = 4

2] Data Communication - 4

3] Distributed Processing - 3

4] Performance Critical - 5

5] Existing operating Environment - 4

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6] Online Data Entry - 4

7] Input transaction over multiple screens - 4

8] Master files updated online - 3

9] Information domain values Complex - 3

10] Internal Processing Complex - 3

11] Code designed to reuse - 4

12] Conversion / Installation in design - 4

13] Multiple Installations - 3

14] Application designed for change - 3

Total Value adjustment Factor = $\Sigma F_i = 51$

FP = Count total * [0.65 + 0.01 * ΣF_i]

= 139 * [0.65 + 0.01 * 51]

= 139 * [0.65 + 0.51]

= 139 * 1.16

FP = 161.24