# **System Size**

### **Function Point Analysis**

Function ality	Input	Output	Queries	File	Program Interface
Data Visualiza tion	4	1	1	1	0
Sign Up	4	0	0	0	0
Recomm endation s	1	1	0	0	0
Login	2	0	1	1	0
Informat ion Retrieval	1	1	1	3	0

	Complexity				
Descripti on	Total#	Low	Medium	High	Total
Inputs	12	7*3	2* <b>4</b>	3* <u>6</u>	47
Outputs	3	1* <u>4</u>	0*5	2*7	18
Queries	3	0*7	3* <u>10</u>	0*1 <u>5</u>	30
Files	5	0*7	5* <u><b>10</b></u>	0*1 <u>5</u>	50

Program Interface	0	0 <b>*5</b>	0*7	0* <u>10</u>	0
Total Unadjusted Function Point (TUFP)				145	

## The total processing complexity (PC):-

<u>Tasks</u>	Complexity
Data communications	2
Heavily used configuration	0
Transaction rate	2
End-user efficiency	3
Complex processing	1
Installation ease	1
Multiple sites	2
Performance	1
Distributed Data processing	1
Online Data entry	4
Online Updating	4
Reusability	4
Operational ease	3
Extensibility (Facilitate change)	2
Total Processing Complexity (TPC) =	30

#### The adjusted processing complexity (APC):-

#### The total adjusted function points (TAFP):-

TAFP=TUFP \* APC TAFP= 145\*0.95= 137.75

#### Converting Function Points to Line Of Code (LOC):-

Language/Tool	Number of LOC/FP
HTML	80
Javascript	100

- 60% will be done in Javascript
- 40% will be done in HTML

#### Number of lines of code (LOC) = TAFP \* # of(LOC\FP) \* %

For HTML = (137.75) \*(60)\*(80/100) = 6612 LOC For Javascript = (137.75) \*(100)\*(40/100) = 5510 LOC So the total LOC=12122 LOC

#### **Estimating the effort:-**

Effort = 2.4 \* LOC/1000 = 2.4\*12122/1000 = 29.09 person month

#### Estimating the schedule time:-

Time = 2.5 \* (effort) 0.38

=2.5\* (29.09) <sup>0.38</sup> =8.99 months

## **Estimating the number of persons:-**

Average of # of persons = effort/time

= 29.09 /8.99

= **3.24** persons