# DIGITAL DIARY

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## **COCOMO:**

#### **Product attributes**

The complexity of the product (Nominal) = 1.00

Required software reliability extent (Nominal) = 1.00

Size of the application database (Low) = .94

#### Hardware attributes

The volatility of the virtual machine environment (low) = .87

Run-time performance constraints (high) = 1.11

Memory constraints (high) = 1.06

Required turnabout time (Low) = .94

#### **Personnel attributes**

Analyst capability (High) = .86

Software engineering capability(High) = .91

Applications experience(High) = .86

Virtual machine experience(Nominal) = 1.00

Programming language experience(High) = .95

### **Project attributes**

Required development schedule(High) = 1.10

Use of software tools(High) = .82

Application of software engineering methods(High) = .83

### Multiply

EAF= 1.00 X .94 X 1.00 X 1.11 X 1.06 X .87 X .94 X . 86 X .91 X .86 X 1.00 X .95 X .82 X .83 X 1.10

= .43

E= (a(KLOC)^b)\*EAF

KLOC = 10,000, and the project is organic

Software Projects	а	b
Organic	3.2	1.05
Semi Detached	3.0.1.12	
Embedded	2.8.1.20	

E= (a(KLOC)^b)\*EAF

 $= (3.2 \times (10000/1000)^1.05) \times .43$ 

 $= (3.2 \times (10)^{1.05}) \times .43$ 

= 15.44 ~ 16 man-months

Software Projects	а	b	С	d
Embedded	3.6 1.20	2.5	0.32	
Organic	2.4	1.05	2.5	0.38
Semi Detached	3.0 1.12	2.5	0.35	

Time = c(Effort)^d

= 2.5X(16)^.38

= 7.17 ~ 7

Persons = Effort/Time

= 16/7

= 2.22 ~ 2

# WBS:

No.	Module Name	Weightage
1	login	3
2	signup	5
3	Change Password	3
4	Create event	1
5	Modify event	3
6	event description	1
7	Reminder module	1
8	Added Picture and video	5
9	Delete event	3
10	Reminder	1

Our project team has estimated defined per Function Points of **5 hours/points**.

# **Total Effort = Total Function Points \* Estimate defined per Function Points**

	Weightage	Function Points	Total
Complex	5	2	10
Medium	3	4	12
Simple	1	4	4
Function Total Points			26
Estimate define per point			5
Total Estimated Effort (Person Hours)			130