Hotel-Resturent Booking & Comparison System

Project Estimation

Type: Organic
Coefficient=2.4
Source line of code(SLOC)=22000 SLOC
Project Complexity(P)=1.05
SLOC dependent coefficient(T)=0.38

Person month needed for project(PM):Coefficient*$(SLOC/1000)^P$
$$= 2.4 * (22000/1000)^{1.05}$$
$$= 62 \text{ months}$$

Development time(DM) : 2.50* $(PM)^T$
$$= 2.50* (62)^{0.38}$$
$$= 12 \text{ months}$$
$$= 1920 \text{ working hours}$$

Required number of people (ST): PM/DM
$$=62/12$$
$$=6$$

Project Budget

Salary of Developer:

Per hour working salary = 600 tk
Total salary for developers= 600tk*1920hrs=1152000 tk

Requirement Analysis:

Total time for analysis=3weeks=15 working days=15*8=120 hours
Per hour analysts salary=500
Total salary= 500*120=60000 tk

Salary of project tester:

Testing time estimated = 3 months=22*8*3 =528 hours
Tester salary per hour = 500 tk
Total salary = 500*528=264000 tk

Project Management:

Total working time= 8 months=8*22*8=1408
Per hour salary of management=500 tk
Total salary=300*1408=422400 tk

Maintainance:

After deployment maintainance time=4 weeks=20*5=100 hours
Cost per hour=1000
Total cost=1000*100=100000 tk

Office Expenses:

Rent=12*30000=360000tk
Training expense = 50000tk
Transportation cost=24000tk
Hardware and stuffs=100000tk
Miscellaneous =12*1500=18000tk

Total Estimated Expense:

(1152000 tk + 60000 tk + 264000 tk + 422400 tk + 100000 tk + 360000tk +50000tk
+ 24000tk + 100000tk +18000tk) = 2550400 tk

Total after 20% profit:

 20% of 2550400=510080 tk
Total Project Budget=3060480 tk