



North South University

CSE 327: SOFTWARE ENGINEERING

Section: 05

EFFORT & BUDGET ESTIMATION

GROUP: 04

PROJECT TITLE

CholoGhuri: Event Organizer and Travel Mate Matching System

Submitted By:

- Zobaer Ahammod Zamil [2021796042]
- Md. Rakibul Hasan Showrov [2011688642]
- Sheikh Mohammed Wali Ullah [2021186042]
- Md. Saiyem Raiyan [2012468042]

Submitted To:

Dr. Razib Hayat Khan (RHK1)

Asst. Professor, Department of Electrical & Computer Engineering
North South University

CholoGhuri: Event Organizer and Travel Mate Matching System

Effort Estimation:

Project Type:	Organic
Coefficient _{<Effort Factor>}	: 2.4 [P = 1.05, T = 0.38]
SLOC	: 10,400
Effort	= Person-Months (PM) $= \text{Coefficient}_{\text{Effort Factor}} * (\text{SLOC}/1000)^P$ $= 2.4 * (10400/1000)^{1.05} = 28.06 \sim \mathbf{29}$
Development time	= DM = $2.50 * (\text{PM})^T$ $= 2.50 * (29)^{0.38} = 8.987 \sim \mathbf{9 \text{ months}}$
Required people	= ST = PM/DM = $29/9 = 3.222 \sim \mathbf{4}$

Requirement Analysis Budget:

The time needed	= 1 month	= 22 Working days	= 176 hours
Salary Per Working Hour for req. analyst	= BDT 450		
Total expenses for requirement analysis	= BDT 450 * 176		
	= BDT 79,200		

Development Budget:

Salary Per Working Hour for developer	= BDT 650
Working days per month	= 22 days
Total working hours	= 9 * 22 * 8 hours = 1,584 hours
Total Salary of Developer	= BDT 650 * 1,584 * 4
	= BDT 41,18,400

Transportation Budget:

Estimated Transportation Cost	= BDT 1,26,720
-------------------------------	-----------------------

Training & Equipment Budget:

Estimated Training & Equipment Cost	= BDT 1,60,000
-------------------------------------	-----------------------

Rental Budget:

Office space rent per month	= BDT 25,000
Time	= 9 months
Rent Cost	= BDT 25,000 * 9 = BDT 2,25,000
Total Utilities in 9 Months	= BDT 30,000
Total rental cost	= BDT 2,55,000

Maintenance Budget (Till 6 Months after Delivery):

Total Time needed (3 hours in a week)	= 6 * 4 * 3 hours = 72 hours
Cost per hour	= BDT 1000
Total maintenance cost	= BDT 1000 * 72
	= BDT 72,000

Total Estimated Expenses	= 79,200 + 41,18,400 + 1,26,720 + 1,60,000 + 2,55,000 + 72,000
	= BDT 48,11,320

Profit:

Profit	= 20% of Total Expenses
	= 20% of BDT 48,11,320
	= BDT 9,62,264

Grand Total:

Project Budget	= BDT 48,11,320 + BDT 9,62,264
	= BDT 57,73,584