AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH
Faculty of Science & Technology

Project Title:	MEDICARE		
Project No:	01	Date of Submission:	7 April 2021
Course Title:	SOFTWARE ENGINEERING		
Course Code:	CSC3112	Section:	F
Semester:	Spring 2021-2022	Degree Program:	CSE
Course Teacher:	DR. MD. RAZIB HAYAT KHAN		

Group No: 04

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Constructive Model, CoCoMo, For Medicare System:

Project type: Semi-detached

SLOC = 10000

Coefficient<effort factor> =3

P= 1.12

Effort= PM= Coefficient<effort factor> *(SLOC/1000)^P

$$=3*(10000/1000)^{1.12} =39.54$$

Development Time= DM= 2.50*(PM)^T

$$=2.50*(39.54)^{0.35}=9.05$$

Required number of people =ST= PM/DM = 39.54/9.05=4.36

Budgeting:

- **Development salary 9 month : Considering 600 taka per developer**

    600*1584=950400 taka

- **Requirement analysis : Hourly=400 taka**

    Analysis expense=400*176=70400 taka

- **Traspotation cost : 15500 taka**
- **Training and hardware cost : 150000 taka**
- **Rent expense : 18000*9=162000 taka**
- **Total utilities : 60000 taka**
- **Maintenance cost : Expense per hour =1500 taka**

    Extraa hour need for maintenance 80 hours

    Total maintenance = 80 * 1500=120000 taka

- **Other human resource : Project manager = 1* 28000*9=252000 taka**

  Accountant = 1* 22000*9=198000 taka

  Techical staff = 2* 15000*9=270000 taka

  Total cost= 252000+198000 +270000=720000 taka

- **Total estimate expense:**
  950400+70400+15500+150000+162000+60000+120000+720000=2248300 taka
- **Profit : 2248300*25%= 562075taka**
- **Final project budget: 2248300+562075=2810375 taka**