

EXP 5: To estimate project cost using the COCOMO Model for given problem statement

Project Name: Course Scheduling System

Team Members:

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Key Parameters Considered and Results

Parameters for COCOMO Model (Basic, Organic Type):

- **Estimated Project Size:** 10 KLOC (10,000 lines of code)
- **Effort Constants:**
 - $a=2.4$
 - $b=1.05$
- **Duration Constants:**
 - $c=2.5$
 - $d=0.38$

From the FPA, the estimated development effort is **525 hours**. Assuming **1 person-month = 152 hours** (standard industry approximation): 3.45 person-months

For the purpose of COCOMO calculations, let's assume that **10 person-months approximately equates to 1 KLOC**. Then: $= 3.45 / 10 \approx 0.345$ KLOC

Effort (Person-Months) $= a \times (\text{KLOC})^b = 2.4 \times (0.345)^{1.05} \approx 0.87$ person-months

Summary of COCOMO Results

- **Estimated Project Size:** 0.345 KLOC
- **Effort (Person-Months):** 0.87 person-months
- **Duration (Months):** 1.03 months
- **Estimated Team Size:** 4 person