CoCoMo Budget:

Let's assume a medium-sized project with approximately 14,000 lines of code.
So, Kilo lines of code (kLOC)= 14
Development Mode: For our project the development mode is *organic*.

- Effort Estimation:
  Effort = $2.4 \times (kLOC)^{1.05}$
  Effort = $2.4 \times (14)^{1.05}$ = 39 PM (Person per month)

- Duration Estimation:
  Duration = $2.5 \times (Effort)^{0.38}$
  Duration = $2.5 \times (39)^{0.38}$ = 10 Months ≈ 1 year (2 months for safety)

- Staffing Estimation:
  $Staffing = \frac{Effort}{Duration} = \frac{39}{10} = 3.9 \approx 4$ people

- For our software cost per line of code is estimated 100 BDT
  Total Cost = LOC × Cost per Line of Code
  Total Cost = 14,000 × 100 = 14,00,000 BDT

- Assume we allocate 25% of the total budget for testing.
  Testing Budget = 0.25 × Total Budget
  Testing Budget = 0.25 × 14,00,000 = 3,50,000 BDT

- Security Features Implementation & Security Tools: 5,00,000 BDT

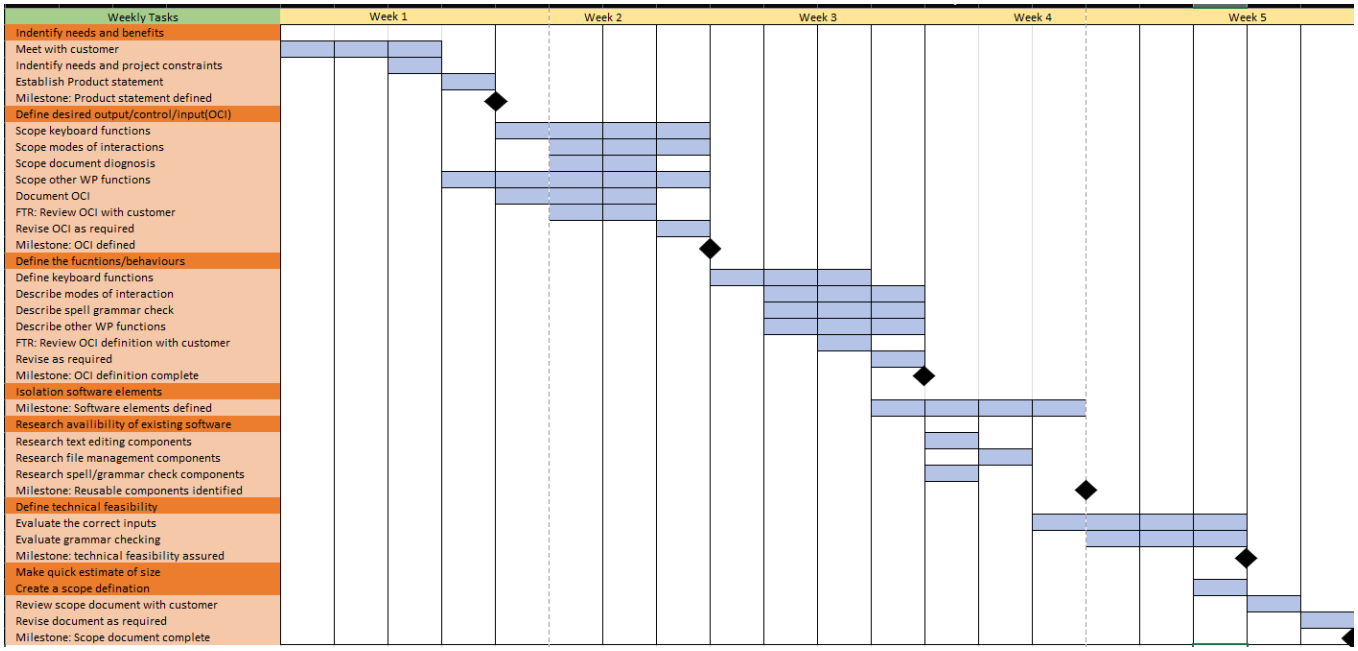
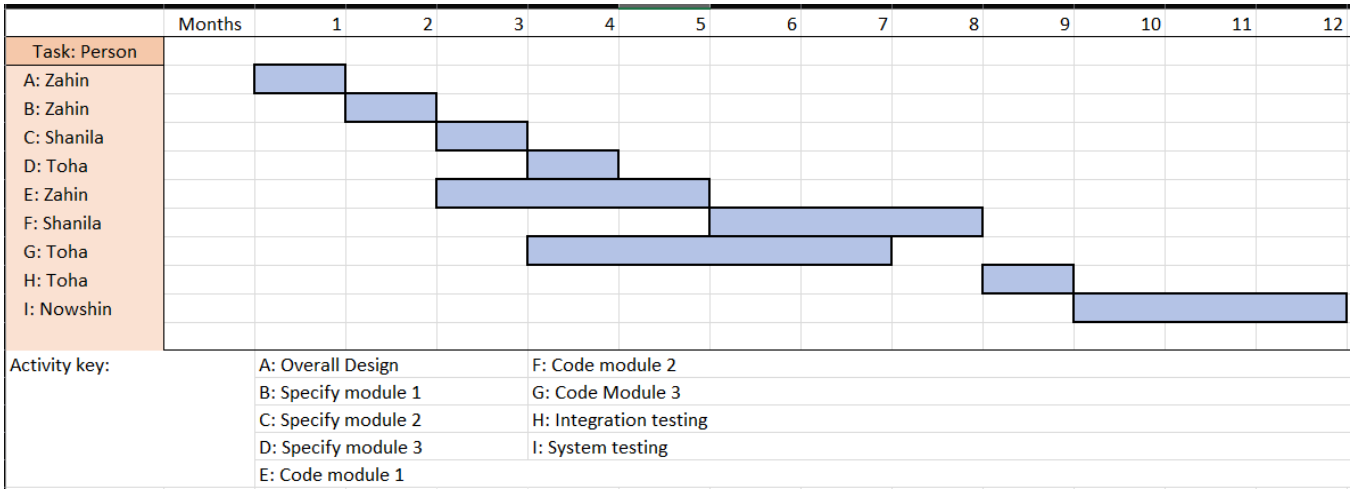
- Post Delivery Development Fee = 3 Years Service × 30 hours per month × Per Hour 400 BDT = 3 × 12 × 30 × 400 = 4,32,000 BDT

- Server Management Cost:
    1. Cloud Services: 20,000 BDT per month for virtual machines, storage, and other cloud services.
    2. Server Administration: 15,000 BDT per month for server administration and support.
    3. Backup and Disaster Recovery: 30,000 BDT per month for backup and recovery services.

- Total Expenses is estimated about 14,00,000 + 3,50,000 + 5,00,000
  = 23,00,000 BDT

- Total Profit = Total Revenue − Total Expenses
  Total Profit = 30,00,000 − 23,00,000 = 7,00,000 BDT

Task Scheduling For month-1



Timeline chart (person)