**Team Orbit**

1. **Required software reliability:** High – 1.15
2. **Database size:** Nominal – 1.0
3. **Product complexity:** High – 1.15
4. **Execution time constraint:** Nominal – 1.0
5. **Main storage constraint:** Nominal – 1.0
6. **Virtual machine volatility:** Nominal – 1.0
7. **Computer turnaround time:** Nominal – 1.0
8. **Analyst capability:** High – 0.86
9. **Applications experience:** Nominal – 1.0
10. **Programmer capability:** High – 0.86
11. **Virtual machine experience:** Nominal – 1.0
12. **Language experience:** High – 0.95
13. **Use of modern programming practices:** High – 0.91
14. **Use of software tools:** High – 0.91
15. **Required development schedule:** Nominal – 1.0

EAF = 0.769 ~ 0.77

Mode:

Although MedMate’s estimated size (~7 KLOC) falls in the lower range, the project has moderate complexity and a team with mixed experience. Hence, the **Semi-Detached mode** of **COCOMO** is selected, as it best reflects both the project characteristics and the development team profile.

Size = 7 KLOC

EAF = 0.77

Effort = 3.0 \* 7 ^ 1.12 \* 0.77 = 20 PM

Duration = 2.5 \* 20 ^ 0.35 = 7.13 Months

Staff = Effort / Duration

Staff = 20 / 7.13

Staff = 3 People