

COCOMO MODEL

Our project title is “Bullisheid”. It’s a complete system to detect, prevent and stop cyber bullying along with a mental health counseling AI ChatBot. It requires no hardware. It’s a relatively small, simple software project in which small teams with good application experience work on a software development project which indicates as a **Organic Model**.

As we know :

- Effort = PM = Coefficient*(SLOC/1000)^P [100,000 SLOC/1000 = 100k SLOC]
- Development time = DM = 2.50*(PM)^T
- Required number of people = ST = PM/DM

Software Project Type	Coefficient	P	T
Organic	2.4	1.05	0.38
Semi-detached	3.0	1.12	0.35
Embedded	3.6	1.20	0.32

Our COCOMO MODEL:

Approximate line of code = 13,000

- Coefficient (C) = 2.4
 - Project Complexity (P) = 1.05
 - SLOC-Dependent Coefficient (T) = 0.38
 - Total line of Code = 13,000
-
- Effort = PM = $2.4 * (13,000/1000)^{1.05} = 35.469230$
 - Development time = DM = $2.50 * (37.05)^{0.38} = 9.864601$
 - Required number of people = ST = PM/DM = $(35.469230/9.864601) = 4$