**Cost required to develop project=effort\*rs/month**

* + **Effort Estimation (E):**

In Organic=2.4 (KLOC)1.05 PM

In semidetached=3.0(KLOC)1.12 PM

In Embedded=3.6(KLOC)1.20PM  **Duration Estimation (D):**

In Organic=2.5(effort)0.38months

In semidetached=2.5(effort)0.35 months

In Embedded=2.5((effort)0.32months

* + **Person Estimation:**

P=E/D

**KLOC=Kilo Line of Code**

**In Or Project,**

|  |  |  |
| --- | --- | --- |
| **Modules** | **Page** | **Estimated line of code** |
| **Chairman** | **-** | **4535** |
| Login | 100 |
| Manage Residents | 600 |
| Manage Forum Post | 800 |
| Calculate Expense | 400 |
| Manage Features | 200 |
| Verify Transaction | 300 |
| Show/manage feedback | 300 |
| Post Notifications | 300 |
| Repository | 700 |
| Show report | 150 |
| **Residents** | **-** | **4350** |
| Registration | 200 |
| Login | 100 |
| Show Resident list | 500 |
| Use Features | 500 |
| Use Forum Post | 900 |
| Send Feedback | 300 |
| Add Expense | 300 |
| Make Transaction | 300 |
| Search | 300 |
| Show time schedule | 600 |
| Edit Profile | 350 |
| **Guest User** |  | **3650** |
| Registration | 200 |
| Home | 900 |
| About us | 150 |
| Contact us | 250 |
|  | Login | 100 |
| List of Guest | 100 |
| Limited Features | 200 |
| Demo Transaction | 300 |
| View Posts | 500 |
| Advertisement | 350 |
| Limited Search | 600 |

[Table 2. 3 Cost Estimation]

* + Total line of code=12,535
  + KLOC=12.54

We are using Organic Project Type,

**Effort Estimation (E):**

=2.4 (KLOC)1.05 PM

=33.30 PM

**Duration Estimation (D):**

= 2.5(effort)0.38  month

=2.5(33.30)0.38 months

=9.5 months

**Project Cost:**

=effort\*RS/month

=33.30\*12000

=3, 99,600 RS

**Advantages of COCOMO:**

* COCOMO is factual and easy to interpret.
* One can clearly understand how it works.
* Accounts for various factors that affect cost of the project.
* Works on historical data and hence is **more** predictable and accurate.

**Disadvantages:**

* COCOMO model ignores requirements and all documentation.
* It ignores **customer skills**, cooperation, knowledge and other parameters.
* It oversimplifies the impact of safety/security aspects.
* It ignores hardware issues
* It ignores personnel turnover levels
* It is dependent on the amount of time spent in each phase.