**Estimated Project Cost :**

**Functional Points :**

**We assume average weighting factor**

|  |  |  |  |
| --- | --- | --- | --- |
| measurement parameter | count | weighting factor | Count\*weighting factor |
| **number of user inputs** | 8 | 4 | 32 |
| **number of user outputs** | 10 | 5 | 50 |
| **number of user inquiries** | 0 | 4 | 0 |
| **number of files** | 5 | 10 | 50 |
| **number of external interfaces** | 4 | 7 | 28 |
| **count-total** |  |  | 160 |

**UFC= count-total = 160**

**Assuming = 36**

**complexity multiplier = 1.01**

**FP = 160 \* 1.01 = 161.6**

**Assuming :**

**organization average productivity= 8 FP/p-m** &**monthly person cost=1000 $**

**Estimated effort = 161.6/8 = 20.2 = 21 p-m**

**Project cost = 1000 \* 21 = 21000 $**

**COCOMO-II :**

**PM = A × SizeB × M**

**Size = KLOC =( AVC \* FP) / 1000 = (16 \* 161.6 ) / 1000 = 2.59**

**Assuming :**

**PERS = 1** & **RCPX = 1.2**& **RUSE = 1** & **PDIF = 1.1**& **PREX = 1.2**

**FCIL = 0.7**& **SCED = 0.9** & B = 1.1

**M = PERS×RCPX×RUSE×PDIF×PREX×FCIL×SCED**

**M = 1.2\*1.1\*1.2\*0.7\*0.9= 0.998**

**PM = 2.94 \* (2.59^1.1) \* 0.998 = 8.36 = 9**

**monthly person cost=1000 $**

**Project cost = 9\* 1000 = 9000 $**

**Expert judgement :**

**The expert estimated that the project cost is around 15000 $**.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Functional Points** | **COCOMO-II** | **Expert judgement** |
| **Project cost** | 21000 $ | 9000 $ | 15000 $ |