Estimation of Application :

1. FP for DTC Bus Tracking System :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **INFORMATION DOMAIN VALUE** | **COUNT** |  | **SIMPLE** | **AVERAGE** | **COMPLEX** |  |
| User Input | 2 | 3 | 3 | **4** | 6 | 8 |
| User Output | 6 | 3 | 4 | **5** | 7 | 30 |
| User Inquiries | 3 | 3 | 3 | **4** | 6 | 12 |
| Internal Logical Files | 1 | 3 | 7 | **10** | 15 | 10 |
| External Interface | 2 | 3 | 5 | **7** | 10 | 14 |
| **COUNT TOTAL** |  | | | | | 74 |

As complexity adjustment factor is average for DTC bus tracking System.

To compute function points (FP), the following relationship is used:

***FP = count total \* [0.65 +0.01 \* ∑ ( Fi )]***

Count total = 126

∑(Fi) = 3 + 3 + 1 + 1 + 4 + 4 + 3 + 1 + 2 + 2 + 3 + 3 + 2 + 4

= 36

FP = 74 \* [0.65 + 0.01 \* 36]

= 74\* 1.01

= 74.74 ≈ **75**

2. COST and EFFORT for DTC Bus Tracking System:

1. **EFFORT = FP/PRODUCTIVITY**

Effort =75/6

= 12.5 person/month

1. **COST = Effort \* Rate**

Rate = $ 3000 PM

Effort = 12.5 PM

Cost = 12.5 \* 3000

= $ 37.5K