

San Diego Global Knowledge University.

Full Stack Development Immersive.

FSDI 120

Assigment 3

Full Stack Instructor:

Andres Mejia

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Student

<Enciso Villegas Antonio >

<Gradillas Ramirez Joan Josue>

INTERNATIONAL FUNCTION POINT

USERS GROUP

|  |  |  |  |
| --- | --- | --- | --- |
| **Type/ Complexity** | **Casualty** | **Stocking** | **Loud** |
| **(EI) External input** | 3 PF | 4 PF | 6 PF |
| **(EO) External output** | 4PF | 5 PF | 7 PF |
| **(EQ) External consultation** | 3 PF | 4 PF | 6 PF |
| **(ILF) Internal logical file** | 7 PF | 10 PF | 15 PF |
| **(EIF) External interface file** | 5 PF | 7 PF | 10 PF |

The system requires:

         User registration (**EI 4 PF**)

         Guitar Register (**EI 4 PF**)

         Search guitars by brands (**EQ 4 PF**)

         Guitar Data Update (**EI 4 PF**)

         Updating user data (**EI 4 PF**)

         Delete users (**EI 4 PF**)

         Remove Guitars (**EI 4 PF**)

         List of Users (**EO 5 PF**)

         3 data tables (**ILF 30 PF**)

Total PF score: 63

ADJUSTMENT FACTOR

|  |  |
| --- | --- |
| **Adjustment Factor** | **Score** |
| **Data communication** | 3 |
| **Distributed Processing** | 3 |
| **Performance Objectives** | 1 |
| **Equipment Configuration** | 1 |
| **Transaction fee** | 3 |
| **Online Data Entry** | 4 |
| **User interface** | 3 |
| **Online Updates** | 2 |
| **Complex Processing** | 1 |
| **Reusability of the Code** | 2 |
| **Ease of implementation** | 2 |
| **Ease of Operation** | 2 |
| **Multiple installations** | 1 |
| **Ease of Change** | 4 |
| **Adjustment factor** | 32 |

PFA = PFSA\*[0.65+ (0.01\*Adjustment Factor)]

PFSA = 63

Adjustment factor = 32

63\*[0.65 +(0.01\*32)]=

63\*[0.65+(0.32)]=

63\*[0.97]=

PFA = 61.11

|  |  |  |
| --- | --- | --- |
| **Language** | **Average PF hours** | **Lines of code per PF** |
| **Assembler** | 25 | 300 |
| **COBOL** | 15 | 100 |
| **4th Ge languages** | 8 | 20 |

61 \* 8 = 488 Hours

We need 2 programmers

488/2 = 244

5 hours a day of work and 1 month = to 20 days

244 /5=48.8 ----- 48.8 / 20 = 2.44 months to finish the project from Monday to Friday, 5 hours daily with 2 programmers