Department of Computer Science-UIBT

Document: Effort Estimation

Project Title: Inquizitive Application

Team: CerebroSparks

Course: Software Project Management (CS-458)

Class/Section: BSCS-4th semester, section B

Members:

B23110006011-Anabiyah Ahmed

B23110006028-Fareeha Jawed

B23110006152-Shahana Mansoor Jamal

B23110006178-Wajeeha Batool

B23110006177-Usaid Ahmed

Supervisor: Miss Maryam Feroze

Effort Estimation and Adjusted FPs

- Complexities of 5 parameters (EI, EO, EQ, ILF, EIF):

  Note: DETs = Data Element Types, RETs = Record Element Types, and FTRs = File Types Referenced

EI	EO	EQ	ILF	EIF
13 (DETs)	4 (DETs)	4 (DETs)	32 (DETs)	12 (DETs)
4 (FTRs)	4 (FTRs)	1 (FTRs)	5 (RETs)	1 (RETs)
Complex	Average	Simple	Average	Simple

- Counts and FPs of 5 parameters (EI, EO, EQ, ILF, EIF):

Parameters	Counts	Complexity	FPs
EI	5	6	30
EO	5	5	25
EQ	3	3	9
ILF	5	10	50
EIF	1	5	5

- UFP (Unadjusted Functional Points) = 30 + 25 + 9 + 50 + 5 = 119 FPs
- Productivity: 10 hours per FP (assumed)
- GSC (0-5 rates range):

GSCs	Ratings
Data Communications	3
Distributed Data Processing	2
Performance Objectives	3
Heavily Used Configuration	2
Transaction Rate	3
On-line Data Entry	4
End-user Efficiency	3
On-line Update	4
Complex Processing	4
Reusability	2
Installation Ease	3
Operational Ease	4
Multiple Sites	3
Facilitate Change	3

Sum of all GSCs ratings (Total score) = 43

- Complexity Adjustment Factor (CAF) = 0.65 + (0.01 x Total GSC Score)

  = 0.65 + (0.01 x 43)

  = 1.08

- Adjusted FP = UFP x CAF

  = 119 x 1.08

  = 128.52

- Effort = size x productivity

  = 128.52 x 10

  = 1285.2 hours