IT314: Software Engineering

Course Project Lab 4

Group: 15 Conference Management System

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Tools, Technologies and Framework

- **Tools**:
  - Visual studio Code
  - Git and Github

- **Front-end technologies**:
  - HTML5
  - CSS3(Vanila)
  - JavaScript
  - Bootstrap5

- **Back-end technologies**:
  - Django Framework

- **Database**:
  - MongoDB free Cluster

- **APIs**:
  - Font Awesome icons

- **Testing technologies**:
  - Django(Back-end Testing)

Calculation of the FPs

Effort Estimation using Functional Point Analysis:

Following formulas were used in calculating FP:
F = 14 * scale

Scale varies as follow

0 - No Influence

1 - Incidental

2 - Moderate

3 - Average

4 - Significant

5 - Essential

CAF = 0.65 + (0.01 * F)

FP = UFP * CAF

- **To find Complexity Adjustment Factor:**

Complexity Adjustment Factor	Low (F=14)	Average (F=42)	High (F=70)
(0.65+0.01*F)	0.79	1.07	1.35

- **To calculate Unadjusted Functional Point:**

Measurement parameters	Low	Avg	High
External Inputs (EI)	3	4	6
External Output (EO)	4	5	7
External Inquiries (EQ)	3	4	6
Internal Logical Files (ILF)	7	10	15
External Interface Files (EIF)	5	7	10

Count of Measurement parameters	Low	UFP for Low Category	Avg	UFP for Avg Category	High	UFP for High Category
External Inputs (EI)	7	21	5	20	2	12
External Output (EO)	3	12	2	10	1	7
External Inquiries (EQ)	2	6	4	16	2	12
Internal Logical Files (ILF)	3	21	1	10	1	15
External Interface Files (EIF)	0	0	0	0	1	10
Totals for categories		**60**		**46**		**56**

Functional Points	Low	Avg	High	Total
(CAF * UFP)	47.4	49.22	75.6	**172.22**

The Functional Points are 172.22