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**CSIT214/CSCI814/HSC814 IT Project Management**

Group Project - Project Group 1

Project Charter

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# Albrecht/IFPUG function points

|  |  |  |  |
| --- | --- | --- | --- |
|  | Low complexity | Medium complexity | High complexity |
| **External Inputs (EIs)** | **3** | **4** | **6** |
| **External Outputs (EOs)** | **4** | **5** | **7** |
| **External Queries (EQs)** | **3** | **4** | **6** |
| **Internal Logical Files (ILFs)** | **7** | **10** | **15** |
| **External Interface Files (EIFs)** | **5** | **7** | **10** |

|  |  |  |
| --- | --- | --- |
|  | Level | Points |
| **External Inputs (EIs)** | Medium | 4 |
| **External Outputs (EOs)** | Medium | 5 |
| **External Queries (EQs)** | Medium | 4 |
| **Internal Logical Files (ILFs)** | Low | 7 |
| **External Interface Files (EIFs)** | Low | 5 |
| **Total** | **25** | |

|  |  |
| --- | --- |
| Unadjusted Function Points (UFP) | 25 |
| **Total Degree of Influence (TDI)** | 29 |
| **Value Adjustment Factor (VAF)** | 0.94 |
| **Function Points (FP)** | **23.5** |

# Constructive Cost Model

|  |  |  |
| --- | --- | --- |
| System type | c | k |
| Organic | 2.4 | 1.05 |
| Semi-detached | 3.0 | 1.12 |
| Embedded | 3.6 | 1.20 |

|  |  |
| --- | --- |
| Size | 45.92 KLOC |
| c | 2.4 |
| k | 1.05 |
| **Effort** | **133.45** |

# Constructive Cost Model II

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Driver | Very low | Low | Nominal | High | Very high | Extra high |
| **Presentences (PREC)** | 6.20 | 4.96 | 3.72 | 2.48 | 1.24 | 0.00 |
| **Development flexibility (FLEX)** | 5.07 | 4.05 | 3.04 | 2.03 | 1.01 | 0.00 |
| **Architecture/risk resolution (RESL)** | 7.07 | 5.65 | 4.24 | 2.83 | 1.41 | 0.00 |
| **Team cohesion (TEAM)** | 5.48 | 4.38 | 3.29 | 2.19 | 1.10 | 0.00 |
| **Process maturity (PMAT)** | 7.80 | 6.24 | 4.68 | 3.12 | 1.56 | 0.00 |

|  |  |
| --- | --- |
| Estimated Effort | 157.85 |
| PREC | 1.24 |
| FLEX | 1.01 |
| RESL | 5.65 |
| TEAM | 3.29 |
| PMAT | 3.12 |
| Scale factor (sf) | 1.0531 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Extra low | Very low | Low | Nominal | High | Very high | Extra high |
| **Product reliability and complexity (RCPX)** | 0.49 | 0.60 | 0.83 | 1.00 | 1.33 | 1.91 | 2.72 |
| **Reuse required (RUSE)** |  |  | 0.95 | 1.00 | 1.07 | 1.15 | 1.24 |
| **Platform difficulty (PDIF)** |  |  | 0.87 | 1.00 | 1.29 | 1.81 | 2.61 |
| **Personnel capability (PERS)** | 2.12 | 1.62 | 1.26 | 1.00 | 0.83 | 0.63 | 0.50 |
| **Personnel experience (PREX)** | 1.59 | 1.33 | 1.12 | 1.00 | 0.87 | 0.74 | 062 |
| **Facilities available (FCIL)** | 1.43 | 1.30 | 1.10 | 1.00 | 0.87 | 0.73 | 0.62 |
| **Schedule pressure (SCED)** |  | 1.43 | 1.14 | 1.00 | 1.00 | 1.00 |  |

|  |  |
| --- | --- |
| Adjusted Estimated Effort | 34.55 person months |
| Product reliability and complexity (RCPX) | 0.83 |
| Reuse required (RUSE) | 0.95 |
| Platform difficulty (PDIF) | 0.87 |
| Personnel capability (PERS) | 0.83 |
| Personnel experience (PREX) | 0.62 |
| Facilities available (FCIL) | 0.62 |
| Schedule pressure (SCED) | 1.0 |

**Labor costs: 34.55 \* $10000 person months = $345, 500**