# Exercise 04 Cost/Time Estimation

A screen shot of a sensor

Description automatically generated

Method: Widget Points

|  |  |  |
| --- | --- | --- |
| Widget | Widget Element | Widget Points (WP) |
| Input | Add sensor button | 3 |
| Remove Sensor button |
| Stop/Start collecting button |
| Describing |  | 0 |
| Composite | Selected Sensors List | 1 |
| Menu | Sensor Select Box | 1 |
|  |  |  |
|  | **SUM** | **4** |

|  |  |  |
| --- | --- | --- |
| Requirement | Classified | Value |
| Programming Language | C++/Java | 53 |
| Project Type | Organic (simple) | a=3.2; b=1.05 |
| Complexity of The Product | low | 0.85 |
| Response Times | high | 1.07 |

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Equation | Values | Result |
| FP (function points) |  | WP = 4 | 8 |
| LOC (lines of code) |  | FP = 8  L (C++/Java) = 53 | 424 |
| Ei (effort in person month) |  | a = 3.2  b = 1.05  KDL = 0.742 | 1.3 |
| E (corrected Ei) |  | EAF = 0.85 \* 1.07 = 0.9 | 1.16 |
| D (length [month]) |  | - | 2.65 |
| P (average demand of employees) |  | - | 0.43 -> 1 |
| Cost |  | G (salary)\* = 8550 chf | 22657 chf |

Answer: The project would last 2.65 months and would cost around 22657chf.

\*The average monthly salary has been calculated with <https://www.lohnrechner.ch/>. Results are attached in the file Lohnrechner.pdf