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Solutions for Excercise sheet 2

Exercise 1 – Cost Estimation

i The resulting amount should be $30h * 6 = 180h$ per person, and with $1PM = 20 * 8 = 160h$ it amounts to 6.75 PMs or with five persons to 5.625 PMs.

ii

round	estimations ($KLOC_{pars}$)
0	10, 15, 14, 15
1	12, 13, 12, 10
2	12

TODO.

iii We decided for small size, greater innovation, medium deadlines and stable development environment. Because of this we chose $a = 3.0$ and $b = 1.12$.

iv

parameter	chosen value	explanation
Required software reliability	1	
Size of application database	-	
Complexity of the product	1.15	
Run-time performance constraints	1	
Memory constraints	1	
Volatility of the virtual machine env.	-	
Computer turnaround time	0.87	
Analyst capability	1.19	
Applications experience	1.13	
Software engineer capability	1	
Virtual machine experience	0.9	
Programming language experience	1.14	
Use of modern programming practices	1.16	
Use of software tools	1	
Required development schedule	1	

v The resulting project size in PM is (with $a = 3$ and $b = 1.12$):

$$3.2 \cdot (12)^{1.12} \cdot (1 \cdot 1.15 \cdot 1 \cdot 1 \cdot 0.87 \cdot 11.9 \cdot 1.13 \cdot 1 \cdot 0.9 \cdot 1.14 \cdot 1.1 \cdot 1 \cdot 1) \approx 74$$

TODO differences

Exercise 2 – Process Modeling