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Summer Term 2013

Softwaretechnik

http://proglang.informatik.uni-freiburg.de/teaching/swt/2013/

Exercise Sheet 1

Exercise 1

We have discussed a number of *process models* in the lecture.

1.1   Compare the two agile *process models* from the lecture.   What are the particular differences between the two models? What are the similarities?

1.2   Compare one of the above models to the classic V-Model.   What are the particular differences between the two models? What are the similarities?

Exercise 2

We have also discussed *safety critical* applications in the lecture.

2.1   Search the web for examples (ie, concrete products) of such applications. Justify your answer.

2.2   Search the web for examples of such applications with critical bugs that have not been discussed in the lecture.

Exercise 3

In the lecture, the article "No Silver Bullet" by Fred Brooks, published in 1986, has been mentioned.

3.1   For the upcoming exercise, please read this article.

3.2   Discuss the key points of Brooks' article. What is essence? What is accidence?

3.3   From today's point of view, discuss which of Brooks' claims are valid and which are not.

3.4 Discuss Brooks' opinion on *Object-oriented programming* as well as Brooks' opinion on *Environments and tools*.

Submission

- Submit this sheet *before* the lecture of Thursdays.

- Late submissions will not be accepted.

- Deadline: See `https://daphne.informatik.uni-freiburg.de/`.