

Reading 03

9/8/2022

10 Possible Points

Attempt 1



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KWIC Index Design Case Study

After our introduction to software architecture, it is now time to look at an example software design from an architectural point of view. The example design we will examine will also serve as the basis for [Homework 1 \(https://canvas.vt.edu/courses/156121/assignments/1540785\)](https://canvas.vt.edu/courses/156121/assignments/1540785).

To read

These are "classics" in this subfield, but are important for your background knowledge.

- [required] David Garlan and Mary Shaw. Section 4.1. [An Introduction to Software Architecture \(https://www.cs.cmu.edu/afs/cs/project/able/ftp/intro_softarch/intro_softarch.pdf\)](https://www.cs.cmu.edu/afs/cs/project/able/ftp/intro_softarch/intro_softarch.pdf), Carnegie Mellon University, Tech Report CMU-CS-94-166, 1994, pp. 16-22.
- [required] D.L. Parnas. [On the criteria to be used in decomposing systems into modules \(https://canvas.vt.edu/courses/156121/files/23790883/download?wrap=1\)](https://canvas.vt.edu/courses/156121/files/23790883/download?wrap=1). *Communications of the ACM*, 15(12):1053-1058, Dec. 1972.
- [required] David Garlan, Gail E. Kaiser, and David Notkin. [Using tool abstraction to compose systems \(https://canvas.vt.edu/courses/156121/files/23790874/download?wrap=1\)](https://canvas.vt.edu/courses/156121/files/23790874/download?wrap=1). *IEEE Computer*, 25(6), June 1992.

To turn in

Prepare a brief (no more than one page) written answer to the following two questions. Write up your answer using MS Word or LaTeX, and generate a PDF version in a file named `R03-yourPID.pdf`. One well-presented paragraph for each question is sufficient.

1. From Parnas' paper, what system properties does he believe are critical to high-quality designs?

<https://canvas.vt.edu/courses/156121/modules/items/2003695><https://canvas.vt.edu/courses/156121/mc>

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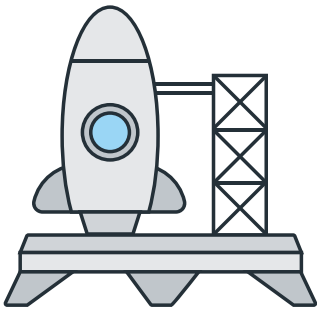
Reading Assignment Evaluation					
Criteria	Ratings				Pts
Question 1 view longer description	5 pts Good: shows critical engagement with the readings assigned	3 pts Marginal: repeats content from the reading without additional insight	1 pts Minimal answer: does not show engagement with the reading	0 pts No answer	/ 5 pts
Question 2 view longer description	5 pts Good: shows critical engagement with the readings assigned	3 pts Marginal: repeats content from the reading without additional insight	1 pts Minimal answer: does not show engagement with the reading	0 pts No answer	/ 5 pts
					Total Points: 0

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