

## Reading 02

9/1/2022

10 Possible Points

Attempt 1



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## Software architecture

We began last week by talking about definitions of quality, and now we are going to begin discussing design and how design affects quality. Software Architecture is a popular topic in software design, and having the right architecture for the problem at hand can make a huge difference in product quality. This week we will begin with an overview of software architecture, which will frame a few design case studies we will examine this semester.

## To read

- [required] David Garlan and Mary Shaw. Sections 1-3. [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. 1-15.
- [required] Nenad Medvidovic and Richard N. Taylor. [Separating fact from fiction in software architecture \(https://canvas.vt.edu/courses/156121/files/23790869/download?wrap=1\)](https://canvas.vt.edu/courses/156121/files/23790869/download?wrap=1). In *Proceedings of the Third International Workshop on Software Architecture*, ACM Press, 1998, pp. 105-108.
- [optional] George H. Fairbanks. Chapter 1. Just Enough Software Architecture [textbook]. Marshall & Brainerd, 2010, pp. 1-11.

## 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 **R02-yourPID.pdf**. One well-presented paragraph for each question is sufficient.

1. What are the important similarities and differences between an "architectural style" and a "programming paradigm" (like functional programming, logic programming, dataflow, etc.)?

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Reading Assignment Evaluation					
Criteria	Ratings				Pts
Question 1 <a href="#">view longer description</a>	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 <a href="#">view longer description</a>	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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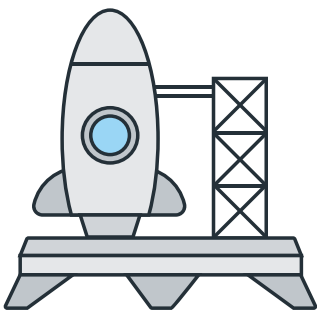
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