

## Introduction

The purpose of this homework is to give you a chance to think about some of the topics presented in class related to project development and relate them to your own experiences on the project teams or elsewhere.

## Assignment

Select at least one of the readings listed below. Write a short paper that accomplishes the following goals.

1. Summarize the main points of the paper as expressed by the author.
2. Identify two or more issues that you believe are important in the paper from your point of view. You can select issues where you agree or where you disagree with the author's opinion on the topic, either way is okay.
3. Express your opinion on these issues and show why you agree or disagree. Cite *specific statements* from the paper and use *specific examples* from your experience (in this class or during any other development experience) to illustrate the issues and justify your arguments.

The paper should be about 1500 to 2500 words long (3-5 pages). However, length is not the critical measure; the task is to do the reading, think about it, and write something interesting about it.

## Turnin

This is an individual assignment, not part of the project development. Your paper is due Wednesday, May 19, at the start of class.

## Readings

*Rapid Development*, Steve McConnell

- 1 - Introduction
- 2 - Rapid-development strategy
- 4 - Software Development Fundamentals
- 5 - Risk management
- 7 - Lifecycle planning
- 10 - Customer-Oriented Development
- 12 - Teamwork
- 13 - Team Structure
- 18 - Daily Build and Smoke Test
- 19 - Designing for Change

*Anchoring the Software Process*, Barry Boehm,  
<http://citeseer.nj.nec.com/boehm95anchoring.html>

*Implementing VisiCalc*, Bob Frankston  
<http://www.frankston.com/public/writing.asp?name=ImplementingVisiCalc>

*Painless Functional Specifications*, Joel Spolsky  
<http://www.joelonsoftware.com/articles/fog0000000036.html>

*The Joel Test: 12 Steps to Better Code*, Joel Spolsky  
<http://www.joelonsoftware.com/printerFriendly/articles/fog0000000043.html>

*The Mythical Man-Month*, Brooks  
Chapter 3, The Surgical Team

*The Pragmatic Programmer*, Hunt & Thomas  
Chapter 7, Before the Project

*Structuring Use Cases with Goals*, A. Cockburn  
<http://alistair.cockburn.us/crystal/articles/alistairsarticles.htm>

*Use cases in theory and practice*, A. Cockburn  
<http://alistair.cockburn.us/crystal/articles/alistairsarticles.htm>

*Programming Considered as a Human Activity*, EW Dijkstra, Proceedings of the IFIP Congress  
65

*On the Criteria To Be Used in Decomposing Systems into Modules*, DL Parnas, Comm. of the  
ACM, V15, No 12, Dec 1972  
<http://www.acm.org/classics/>

*The Hundred-Year Language*, Paul Graham  
<http://www.paulgraham.com/hundred.html>

*Perfection and Simplicity, Taste and Aesthetics, and Designing Distributed Systems*, from A  
Conversation with Ken Arnold, by Bill Venners  
<http://www.artima.com/intv/perfect.html>  
<http://www.artima.com/intv/taste.html>  
<http://www.artima.com/intv/distrib.html>

*Software Architecture*, David Garlan, CMU, 2001  
<http://www-2.cs.cmu.edu/~able/publications/encycSE2001/>

*A Practical Method for Documenting Software Architectures*, Clements, et al, CMU  
<http://www-2.cs.cmu.edu/~able/publications/icse03-dsa/>

*If You Didn't Test It, It Doesn't Work*, Bob Colwell, IEEE Computer  
<http://www.computer.org/computer/homepage/0502/Random/>