Assignment 1

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**Chapter 1**

**7. What are the legal and ethical implications of using COTS software? Of using sub-contractors. For example, who is responsible for fixing the problem when the major system fails as a result of fault in the COTS software? Who is liable when such systems cause harm to the users, directly (as when the automatic brakes fail in a car) or indirectly (as when the wrong information is supplied to another system as we saw in Exercise 1). What checks and balances are needed to ensure the quality of COTS system before it is integrated into a larger system?**

I believe that in the case of using COTS software the user would be responsible for any issues if the COTS software was not approved by the main software developers, while in the case of using sub-contractors the software developers would be held responsible for anything wrong with the main system because they were the ones who decided to get sub-contractors. There should be standard testing for compatibly with all major COTS companies to ensure that these program would work correctly with the main software

**9. When the Ariane-5 rocket was destroyed, the news made headlines in France and else-where. Liberation, a French newspaper, called it “A 37-billion-frane fireworks display” on the front page. In fact the explosion was front-page news in almost all European news-papers and headed the main evening news bulletins on most European TV networks. By contrast, the invasion by a hacker of Panix, a New-York based internet provider, forced the Panix system to close down for several hours. News of this event appeared only on the front page of business section of the Washington part. What is the responsibility of the press when reporting software-based incidents? How should the potential impact of software failures should be assessed and reported.**

I think that the reason why the hacker news was not as successful as the Ariane-5 rockets was because it Ariane-5 was well known at the time because it was an story on development and also because in cost so much money while in contrast the Panix hacker was not know because it happened out of nowhere. I believe that the potential impacts of software knowledge should be reported with more than a page on the business section, because nowadays we depend on software more than ever. And we can see how software news occupy more and more headlines than before, for example when credit card numbers are leak from “k-mart” that news appeared all over the TV in all news. That’s the perfect example that software now is being reported as it should.

**Chapter 2**

**3. For each of the process models describe in this chapter, how does the model handle a significant change in requirements late in development?**

Build and fix model: There are not high cost of changes

Waterfall model: Adjusting scope during life cycle can kill a project

V-Shape model: similar to waterfall adjusting is difficult and expensive

Iterative and Incremental Models: Changes are less costly than other models

Spiral Model: like an iterative model its changes are less costly than other models too

**8. In this chapter, we suggested that software development is a creation process, not a manufacturing process. Discuss the characteristics of manufacturing that apply to software development and explain which characteristics of software development are more like a creative endeavor**

Some characteristics from manufacturing would be the repetitive order and the way to follow step as done in manufacturing , while the creativity required for each step is something that the manufacturing cannot do, steps like the code review, check in sheets, requirements gathering, the SDLC, etc.

**10. Suppose your contract with a customer specifies that you use a particular software development process. How can the work be monitored to enforce the use of this process?**

I would use a model with prototyping, something like the spiral model, where after each phase the customer can check my software to see that his requirements are being enforced