

3. (20 points) Suppose you are about to initiate a large project concerning the development of a patient tracking and billing system for a hospital. You may opt for one of two strategies. Strategy A is to start with a thorough analysis of user requirements, after which the system is built according to these requirements. Strategy B starts with a less complete requirements phase, after which a pilot version is developed. This pilot version is installed in a few small departments. Further development of the system is then guided by the experience gained with the pilot version.

- What process model does Strategy A follow? Explain why.

- What process model does Strategy B follow? Explain why.

- Discuss the pros and cons of each strategy.

- Which strategy do you favor? Explain why.

4. (20 points) Consider this claim:

"The System Requirements write-up for the Online Wine Store illustrates the software engineering principle of _____."

- a. Fill in the blank with the name of a software engineering principle discussed in lecture or the book.

- b. Explain why the claim is true (using the principle you selected). Your answer should be quite specific. Make sure you focus on the System Requirements write-up document and the process that created it, not the eventual (currently unimplemented) system.

5. (20 points) The textbook identifies three processes which occur during the requirements engineering phase. Fill in the complete name of the processes (one complete name is given). For each of the three processes, name and briefly describe one technique the book proposes for accomplishing that process's goals.

Requirements _____

Requirements specification

Requirements _____

