Chapter 3 pages 116-117

MINICASES

1. The State Firefighter’s Association has a membership of 15,000. The purpose of the organization is to provide some financial support to the families of deceased member firefighters and to organize a conference each year bringing together firefighters from all over the state. Members are billed dues and calls annually. Calls are additional funds required to take care of payments made to the families of deceased members. The bookkeeping work for the association is handled by the elected treasurer, Bob Smith, although it is widely known that his wife, Laura, does all the work.

Bob runs unopposed each year at the election, because no one wants to take over the tedious and time-consuming job of tracking memberships. Bob is paid a stipend of $8,000 per year, but his wife spends well over twenty hours per week on the job. The organization, however, is not happy with their performance. A computer system is used to track the billing and receipt of funds. This system was developed in 1984 by a computer science student and his father. The system is a DOS-based system written using dBase 3. The most immediate problem facing the treasurer and his wife is the fact that the software package no longer exists, and there is no one around who knows how to maintain the system. One query, in particular, takes seventeen hours to run. Over the years, they have just avoided running this query, although the information in it would be quite useful. Questions from members concerning their statements cannot easily be answered. Usually Bob or Laura just jots down the inquiry and returns a call with the answer. Sometimes it takes three to five hours to find the information needed to answer the question. Often, they have to perform calculations manually because the system was not programmed to handle certain types of queries. When member information is entered into the system, each field is presented one at a time, which makes it very difficult to return to a field and correct a value that was entered. Sometimes a new member is entered but disappears from the records. The report of membership used in the conference materials does not alphabetize members by city. Only cities are listed in the correct order. (Dennis iii)

Dennis, Alan, Barbara Wixom, David Tegarden. *Systems Analysis and Design: An Object-Oriented Approach with UML, 5th Edition*. Wiley, 2015-02-23. VitalBook file.

**Case Study 1: Requirement Analysis and Gathering for the State Firefighters Association**

Read the mini case on The State Firefighters Association located in Chapter 3 of the textbook and complete the assignment.

Write a four to five (4-5) page paper in which you:

1. Identify the business problems in this case.
2. Determine whether to use a traditional or iterative project method (e.g., RAD and Agile) in this case and explain why or why not.
3. Determine the requirements analysis strategies in this situation and explain why to choose those strategies.
4. Choose the requirements-gathering techniques in this case and explain their pros and cons.
5. Choose the requirements documentation techniques and explain their pros and cons.
6. Use at least four (4) quality resources in this assignment. **Note:** Wikipedia and similar Websites do not qualify as quality resources.

The assignment must follow these formatting requirements:

* Be typed, double spaced, using Times New Roman font (size 12), with one-inch margins on all sides; citations and references must follow APA specific format.
* The specific course learning outcomes associated with this assignment are:
* Compare and contrast requirements gathering among traditional and iterative project methods.
* Apply the project requirements steps of eliciting, analyzing, documenting, and testing to address and solve a proposed business problem.
* Use technology and information resources to research issues in procuring and designing project requirements.
* Write clearly and concisely about project requirements and design topics using proper writing mechanics and technical style conventions