(60−311) ASSIGNMENT 2

Due: 10:00am, Oct. 18, 2010

1. **5.6** (p. 112) Figure 5.15 sets out a number of activities, durations, and dependencies. Draw an activity network for this project.

2. *(optional 5.9, p. 113)* In addition to the risks shown in Figure 5.11, identify six other possible risks that could arise in software projects.

3. *(optional 6.3, p. 141)* Discover ambiguities or omissions in the following statement of requirements for part of a ticket-issuing system.

   An automated ticket-issuing system sells rail tickets. Users select their destination and input a credit card and a personal identification number. The rail ticket is issued and their credit card account charged. When the user presses the start button, a menu display of potential destinations is activated, along with a message to the user to select a destination. Once a destination has been selected, users, are requested to input their credit card. Its validity is checked and the user is then requested to input a personal identifier. When the credit transaction has been validated, the ticket is issued.

4. **6.6** (p. 141) Using the technique suggested in this chapter, where natural language is presented in a standard way, write a plausible user requirement for the following functions:

   - The cash-dispensing function in a bank ATM

5. **7.4** (p. 167) The LIBSYS system has to include support for cataloging new documents where the system catalog may be distributed across several machines. What are likely to be the most important types of non-functional requirements associated with the cataloging facilities?

6. *(optional 7.10, p. 168)* Your company uses a standard analysis method that is normally applied in all requirements analysis. In your work, you find that this method cannot represent social factors that are significant in the system you are analyzing. You point this out to your manager, who makes it clear that the standard should be followed. Discuss what you should do in such a situation.

7. Choose one of the functions that you decide to include in the prototype of your system, and write a requirement definition for it by using the technique suggested in Chapter 6 where natural language is presented in a standard way.

8. For the function chosen in Question 7, complete its requirement specifications by using the structured approach as described in Chapter 6.