

Systems Development: Requirements Analysis Study Guide

Study Questions

Peruse the unit's selected readings to answer the following questions:

Definitions

Let's visit the key concepts in requirements analysis. We have three readings for this section:

- What is meant by the term "stakeholder" in systems engineering?
- Name some activities that are part of object oriented analysis, but not object oriented design.
- When do we prioritize requirements? Should we do so for this project?

Conflict Resolution

Since the three papers in this section are quite technical, skim them just enough to discuss the following topics:

- Can the group propose a method for resolving conflicts within a requirement specification?
- Discuss the three scenarios in italic type on pages 19-21 of the Radziwill paper. Does the group have ideas for resolving the conflict different from those presented in the paper?
- How is a goal different from an ethic?
- Marschall Page 3 proposes two criteria, A) and B), that must be fulfilled to correctly handle occurring conflicts. What parts of our requirements taxonomy from the previous unit support these criteria?

Decomposition

Remember we only require one level of decomposition in this unit.

- Zant quotes M. A. Jackson's three questions of data correspondence. Explain these three questions in your own words.
- Convert the Java code on Zant Page 4 into an IPO diagram.

Use Cases

Read the introductory material on use cases before trying the following practice exercises:

- Gorman Page 8 presents a use case in story board format. Using the UML Tutorial as a guide, convert this use case to UML format.
- Why does Wiegers endorse the use case "fad"? What is a key benefit of focusing on user tasks?

Vocabulary

Each English term in the following list has a specific, technical meaning. Determine the equivalent term in both Armenian and Russian and memorize the meaning (in your favorite language, of course ;]):

- Actor
- Decomposition
- Ethical model
- Ethical theory
- Goal oriented
- IPO diagram
- Professionalism
- Requirements conflict
- Scenario
- Stakeholder
- Unified Modeling Language (UML)
- Use case

- User task