

## Activity 4-1: Product Design Analysis

### Why?

Understanding the problem is the first step in design. In software product design, this first step amounts to understanding stakeholder needs, which is the goal of product design analysis.

### Learning Objectives

- Understand how product design analysis fits into the software product design process
- Know how to elicit needs from stakeholders
- Know how to document needs

### Success Criteria

- Be able to diagram the software product design process
- Be able to list and explain accepted needs elicitation techniques
- Be able to create stakeholder-goals and needs lists
- Be able to review analysis documentation

### Resources

*ISED* Chapter 4

### Vocabulary

User-centered design, stakeholder focus, needs elicitation, needs analysis, requirements validation, interview, focus group, elicitation workshop, prototype, problem domain glossary, organization chart, stakeholders-goals list, need statement, needs list, correct, contingent, uniform, terminologically consistent, complete

### Plan

1. Review *ISED* Chapter 4 individually.
2. Answer the Key Questions individually, and then evaluate the answers as a team.
3. Do the Exercise as a team, and check your answer with the instructor.
4. Do the Problems and Assessment as a team.
5. Turn in the Problems and Assessment as a team deliverable.

### Key Questions

1. Use your book to find the meaning of any terms in the Vocabulary section you do not know.
2. What roles can stakeholders play in a user-driven design process?
3. Name two elicitation heuristics.

4. Name five elicitation techniques.
5. Name three things checked in needs documentation.

**Exercises**

Do *ISED* Chapter 4 exercises 4, 5, and 6.

**Problems (Deliverable)**

Do *ISED* Chapter 4 exercises 7 through 10.

**Assessment (Deliverable)**

1. Do you feel that in-class activities are a good way to learn this material?
2. Are the in-class activities sufficiently challenging?