ECE 321 Lab - Software Requirements Engineering
Department of Electrical and Computer Engineering
University of Alberta

Lab 2: Insert title

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Contents

1 Stakeholders to consider

1. Customers
2. End users
3. Requirement alalysts
4. Developers
5. Testers
6. Documentation writers
7. Project managers
8. Legal staff
9. Manufacturers

2 Things we need:

1. description of functionality
2. agreement on problem definition
3. root causes - why do we need the system?
4. who are the Stakeholders? 1
5. system boundary
6. constraints
7. keep in mind: needs vs features

3 Types of questions to ask:

1. why is this
2. what else could
3. what happens when
4. why do you
5. why don't you
6. does anyone ever
7. context-free questions

4 structure of the interview:

1. Establish the customer or user profile
2. assess the problem
3. understand the user enviroment
4. recap at the end
5. assess your solution
6. assess the opportunity
7. assess the reliability, performance, and support needs
8. other Requirements
9. wrap-up
10. recap

5 List of questions to ask:

1. establishing the user profile:
   what are your key responsibilities
   what outputs do you produce or whom?
   when is the solution successful for you?
   what problems interfere with your success?
   what makes your job easier or more difficult?
   who are the users and what are their backgrounds?
   what platforms are in use now, and in the future?
   are there additional relevant applications?
   what are your expectations for training time?
   what kind of user help do you need? (manual, user support)
2. Here's what we think the problem definition is: ——————————————- it will affect: ——————————— which will result in ——————————- so the solution should have these features:————— which has these benefits: ——————————
   Do you have anything to add?
3. What's the highest priority issue/root cause?
   for each problem:
   why does this problem exist?
   how do you solve it now?
   how would you rather solve it in the future?
   — rank the other root causes —
4. – stakeholders –

5. Who are the users?
   Who is the customer/buyer of the system?
   Who will evaluate and who will maintain the system
   Anyone else?

6. –system boundary –
   Who will operate it?
   who will supply, use, or remove information from the system
   where will the system be used?
   what other external systems will interact with this one?

7. – constraints – technical constrains
   economical
   political - any laws we should be aware of?
   system-imposed constraints – compatible with existing systems? operating systems
   enviromental constraints
   security

8. what resources are available?