

INF 117

Project in Software Engineering

Lecture Notes ~Spring Quarter, 2008

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Set 4 – Requirements, Final Check – Team Updates

What's Next

APRIL 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6 Week 2	7 Earn Website	8	9	10 Req. Iter. #1 Project Plan #1	11	12
13 Week 3	14	15 Taxes Due	16 Stud. Pres. Des. Order 2,3,1 Team App: #1 Peer Eval: #1	17 Req. Iter. #2 Test Plan It #1	18 Team Log #1	19
20 Week 4	21	22 Earth Day	23	24 Req. Iter. #3 Des. Iter: #1 Project Plan #2	25 Cust. Milestone Req. Approved	26
27 Week 5	28	29	30 Stud. Pres. Des. Order 2,3,1 Team App: #2 Peer Eval #2	1 Des. Iter: #2 Test-Plan It #2 (Incl Des)	2 Team Log #2 Course Log #1	

Announcements

- Let me know by **Friday morning** about Showcase event
 - June 12th, 3:30p-6:30p
 - Note: Time has been extended
- Should send Reqs to client for feedback
 - Might want to wait until you get my feedback
- Try to meet with clients early in the week
 - Major deliverables are due on Thursdays (usually)
- Updated the website
 - Let me know if you can't find something

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Today's Class

- Requirements & Project Plans reminders
- Requirements
 - How do you know when you are done?
 - Final Check
- Acceptance Test Plans

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Requirements Reminders

- Remember who your audience is..
 - Not me...
 - Keep it formal
 - Spell check
- UML should be incorporated into the requirements (not separate docs)
- Be as detailed as possible – BE SPECIFIC!!!
- Keep it organized
 - Functional reqs
 - Non-functional
- Have an introduction of some sort
- Acceptance test Plans should have specific tests
- If you submit using MS Word files...
 - Grader can annotate feedback...

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Project Plan & Minutes Reminders

- Project Plans
 - Should have dates and times → deadlines
 - Should be more detailed than the class schedule
- Minutes
 - Please review slides from 1st lecture
 - Should have date/time/location info
 - Who contributed what...
 - Brainstorming activities?
 - Agenda!

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How do you know when you are done?

- K Is done when all the requirements are elicited or have they found at least enough?
- K Like asking an archeologist "how many undiscovered ruins are there?"
- K First scope the requirements elicitation effort by defining the problem or problems that are to be solved with the system.
- K Employ requirements analysis
 - Look for Inconsistencies and ambiguities

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Requirements Guidelines

K At the highest level, we want to confirm that the specification is

- Well-structured
- Consistent
- Complete
- As unambiguous as possible
- An accurate representation of customer requirements

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Requirements Guidelines (2)

At the next level...

1. Is the overall structure of the document reasonable and complete?
 - Does it follow a template or structure agreeable with SE practices/ textbooks?
2. Are use cases used? If not, why?

If yes..

- Is the number of use cases reasonable for the project at hand?
- Are the use cases corresponding to user or system goals and using active-verb style for use case names?

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Requirements Guidelines (3)

3. Is a reasonable use case template used? Is it used consistently for all use cases?
4. Is there a use case diagram? If not, why?
 - Are all use cases and actors identified and consistent with the scope of the project?
 - If use case relationships like Includes and Extends are used, are they used correctly?

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Requirements Guidelines (4)

5. Are other sections of the requirements document correct and complete?
 - For example, if the project has known design guidelines or external constraints, are they listed?
 - If the project clearly requires additional sections, such as UI or Web designs for GUI systems
 - ▣ highly recommended, but not absolutely required.
 - ▣ You need to describe clearly how it looks
 - ▣ mock ups would make it a lot easier)
 - ... are those identified, complete and done correctly?
6. Are the functional requirements detailed enough?
 - Going by the basic idea that the reader should be able to read it and fully implement the system without additional information/questions.

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Requirements Guidelines (5)

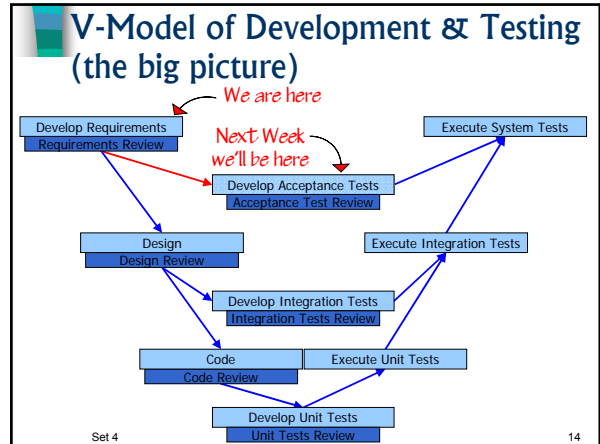
As a reminder..

- Your document should be posted online.
- Email me & the reader when it is posted
 - ▣ we won't check until you do
- Make sure that you provide a copy for your customers
 - ▣ Use the format (paper, electronic, etc) that they prefer.

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Acceptance Test Plans

Testing at the requirements level



Acceptance Test Plans

a.k.a. System Test Plans

- ↳ Tests the system from a user's perspective
 - Is this white or black box testing?
- ↳ What happens if your system does not pass one of these tests?
- ↳ Should have SPECIFIC TESTS
- ↳ What are you testing it and how...
 - What is your approach?

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