

CSE 308

Project Management

Communication Skills

- Management: Run a team meeting
 - Presentation: Present aspects of your project during its development phase
 - Collaboration: Negotiate requirements with the client and with members from your team and other teams
 - Technical writing: Write specs, user manuals, etc. and document your code
- In large system development efforts, you will spend more time communicating than coding

Communication Events

- Type of information exchange that has defined objectives and scope
- Communication mechanisms – tool or procedure that can be used to transmit information
 - Team environment (e.g., cubicles, meeting room)
 - E-mail, text messages
 - Meetings
 - Bug report system
 - Project documentation
 - Repository coordination
 - Presentations

What is your
approach to testing?

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Information to Communicate

- The information to communicate depends on your audience
- Categories
 - Client
 - Management
 - Peers
 - Subcontractors

You will report
different information
depending on your
audience



Know your
audience

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Client Communications

- Client is interested in:
 - Features
 - Cost
 - Schedule

plus information that supports team credibility
 - Type of client communications
 - Proposal
 - Status review (e.g., requirements review)
 - Milestone review (e.g., design review, code review)
 - Product demo (e.g., final demo)

Design reviews are usually only done with large clients
- Good to under-promise and over-deliver

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Status Reports

- Typically weekly reports
 - Goal: inform the client on progress and changes
 - Usual format: 1 page with some bulleted lists
 - Typical sections:
 - Completed items (i.e., progress)
 - Issues (i.e., problems)
 - Plan for next week
- Not required for this semester's project
- You will usually report on what you have done, not how you have done it

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Management Communications

- Management concerns
 - Cost (different from client cost)
 - Schedule
 - Synergy (e.g., contract extensions, reusable code, etc.)
 - Company integrity
 - HR issues
 - Type of communications
 - Face-to-face
 - Status reviews (weekly, monthly, quarterly)
 - Ad hoc meetings
 - E-mail, memos, etc.
- Honesty and trust is very important

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Peer Communications

- Peer concerns
 - Quality (e.g., adherence to standards)
 - Interfaces
 - Egos (?)
- Type of communications
 - Face-to-face
 - Team meetings
 - Cubicle talk
 - Reviews (e.g., audits, code, documentation and design reviews)

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Make Meetings Productive

- Meeting leader
 - Responsible for organizing the meeting and guiding the execution (works with a time budget)
 - Writes and distributes the agenda
- Minute taker (often not the meeting leader)
 - Responsible for recording the meeting.
 - Identifies action items and issues
 - Release them to the participants
- Meeting issue - high cost
 - Make it brief (be prepared)

Stay focused in a meeting - no side conversations

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Peer Review

- Your project will include some peer reviews (oral)
- In a work environment, you are evaluated on your review of co-workers code, designs, etc.
 - Thorough
 - Respectful
 - Productive (suggest positive changes)

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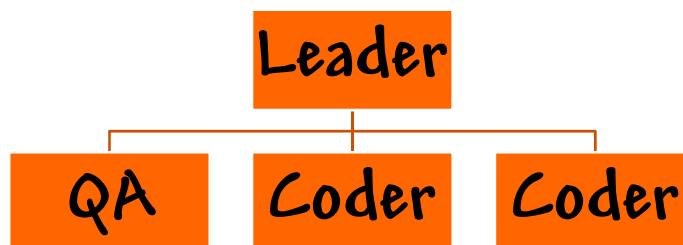
Project Organization

- Project organization approach depends on:
 - Size of team
 - Quality of team
 - Management philosophy
 - Modularity of system
 - Complexity of system
- Possible strategies
 - Hierarchal
 - Democratic
 - Hybrid

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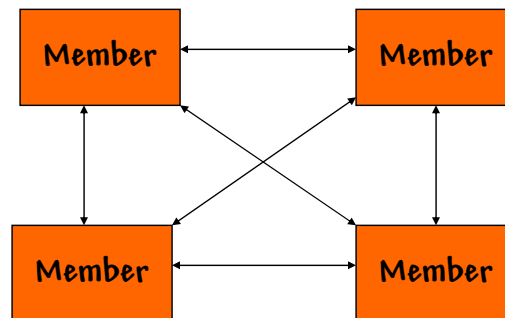
Hierarchal Models



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Democratic Models



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Project Plan

- Most projects use Microsoft Project
- Identify major milestones
- Identify discrete tasks (that have a definite end)
- Construct task dependencies
- Construct an initial schedule
- Assign team members to the project tasks

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Typical Project Plan

■ Tabular data

Management	537 days	Thu 7/1/04	Fri 7/21/06		Adam S
Project review meeting	1 day	Thu 7/1/04	Thu 7/1/04		
6 month progress report	15 days	Thu 12/30/04	Wed 1/19/05		
12 month progress report	15 days	Fri 7/1/05	Thu 7/21/05		
18 month progress report	15 days	Mon 1/3/05	Fri 1/21/05		
Final project report	15 days	Mon 7/3/06	Fri 7/21/06		
CPG definitions	93 days	Thu 10/21/04	Mon 2/28/05		Melina
Identify top 20 ER CPGs	1 day	Thu 10/21/04	Thu 10/21/04		Melina L
Locate and print CPGs	3 days	Fri 10/22/04	Tue 10/26/04	11	Johnny I
Create XML document from first CPG	21 days	Thu 12/2/04	Thu 12/30/04	45,12	Thomas
Test XML with Rule engine	14 days	Fri 12/31/04	Wed 1/19/05	13	Thomas
Create next 5 CPG XML docs	28 days	Thu 1/20/05	Mon 2/28/05	14	Johnny I
Administration	147 days	Thu 7/1/04	Fri 1/21/05		
Select grad student	1 day	Fri 7/2/04	Fri 7/2/04		Roh Kel

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