Working Together

Collaboration of CS4760, HU4642, CS5760

Wei Zhang
PhD candidate, Applied Cognitive Science and Human Factors
Collaborations in Software Development

Project manager
Product owner
Client
User

User experience designer
Software engineer
Technical communicator
Usability tester

Usability testing
Requirement gathering
Design/Prototype
Cog Walk/H.E
User centered software process
Implementing
Course Stakeholder Network
Problems

What programmers say:

We can communicate so much better with a tester who understands programming concepts.

User centered software process

Requirement gathering

Design/Prototype

Cog Walk/H.E

Usability testing

Implementing

Go away, I'm coding

Software Developers

Clients

Designer

Developer
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What is a team?

• Social entities composed of members with high task interdependency and shared common goals (Dyer, 1984).

• A group of people with different specialties linked in a common purpose.

  Common purpose/shared goals:
  • Develop app
  • Complete the course

• Teamwork: team members integrate and share information, coordinate and cooperate as task demands shift so as to complete their mission.
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  Shared Goals:
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What are the factors that influence your team collaboration?

• Time constraint
• Communication
• Task coordination
• Awareness of the contribution from the other discipline
• Personalities
Team Building Techniques

• Getting to know each other
• Create shared/common goals
• Build a team structure
• Develop a team process
Getting to know each other:

• Know your team member’s name
• Know what each person is good at
• Find a role for yourself and others in the team
Shared/Common Goals:

• Project goal: what are you ultimately trying to accomplish?
• Course goal: get an A or comfortable workload?
• Write a team vision statement
Building a Team Structure

Smaller teams have team leaders.

Team leader roles:

• Organize and lead meetings
• Split the project into tasks
• Monitor the project and Keep team members on track
• Monitor the team process and improve the process
Team Processes:

• Communication: Meetings & Emails
  • Email: subject line, responsiveness
  • Meeting: Define meeting goals
  • Tasking more appropriate during meetings
  • Difficulties and seeking help
  • Work jams for getting the project done.

• Monitoring Progress
  • Development timeline
  • Burnt down chart
Team Process

- Communication: Meetings & Emails
  - Email subject line
  - Meeting goals
  - Tasking
  - Difficulties
- Progress
  - Burnt down chart
  - Development timeline