CompSci 408 Delivering Software: From Concept to Client

Team Roles: Different Roles – United Goals
September 14, 2016

FOR A FAIR SELECTION EVERYBODY HAS TO TAKE THE SAME EXAM: PLEASE CLIMB THAT TREE
Team Roles & Responsibilities

• Agile Software Development
  • Agile Manifesto

• Sprint

• Scrum Meeting

• Team Roles & Responsibilities
Agile Software Development

- Methods based on:
  - Iterative &
  - Incremental development

- Where
  - Requirements & Solutions
  - Evolve through collaboration
Agile Manifesto

• Individuals & interactions over processes & tools

• Working software over comprehensive documentation

• Customer collaboration over contract negotiation

• Responding to change over following a plan

Source: http://agilemanifesto.org
Sprint

- **Basic unit** of development
- **Specific duration** (~ 1-4 weeks)

**Before**: Planning meeting
- Identify candidate tasks from the backlog
- Estimate effort Finalize Sprint Tasks
  - Prioritize: Benefit/Cost
  - Benefit/Cost^2
  - Benefit^2/Cost

**During**: Get sheet done!
- Finish tasks & handle surprises

**After**: Retrospective meeting
- What worked!
- What didn’t work!
Scrum Meeting

Daily standup

1. Report accomplishments
2. Plan today
3. Identify hurdles

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Team Roles & Responsibilities

• Business Analysts (Product Owner)
  • A stakeholder representing the customer
  • Primary customer contact
  • Manage Confluence

• Development Team (Technical Lead)
  • Code bug-free software that meets client’s needs

• Scrum Master (Project Manager & Team Lead)
  • Maintain/communicate project milestones/timeline
  • Manage JIRA (Tasks, Agile Board & Sprints)
  • Accountable for removing any impediments to progress

• Quality Assurance Team (Quality Assurance Lead)
  • Develop tests to assure quality
  • Find, document, & report all bugs or defects to the rest of the team

Tech Lead provides technical direction, e.g., platform (iOS, Android, Web), database, languages, toolkits, design patterns, etc.

Coordinate client meetings & requirements; Represents & understands client needs
Organize, publish client info, document meeting minutes

Communicate project deliverables to customer & instructors
Recap

• **Agile Software Development**
  • Agile Manifesto

• **Sprint**

• **Scrum Meeting**

• **Team Roles & Responsibilities**