

# CS-E4910 Software Project 3 Scrum Master's Role in the Course Project

18.9.2024 Jari Vanhanen

# **Agenda**

**16:15** Scrum Master's responsibilities in the course project, Jari Vanhanen

- Setting up Scrum
- Team building and teamwork

**16:50** Community of Practice (CoP) for the Scrum Masters

17:00 Scrum Master's role in the Scrum Simulation, Towo Toivola/Futurice

- Study, plan, teach and ensure the application of Scrum
- Prepare and lead the Scrum events
- Manage team building
- Initiate discussions on any problems
  - if the team does not react to them
- Try to give tips on methods and tools
  - for architecture, testing, user requirements, teamwork etc.
- Work as a development team member
  - if the time budget allows (>5cr course version)

# **Studying Scrum**

- Read
  - CSM Training materials and references
  - Practitioner literature
    - books and articles
  - Community pages, e.g.
    - www.scrum.org/resources/blog
    - <u>www.scrum.org/forum/scrum-forum</u>
  - Scientific articles
- Discuss and share experiences
  - with your coach
  - with other Scrum masters on the course
  - with anyone who has used Scrum



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# **Setting up Scrum**

- Motivate the use of Scrum to the developers
  - it is valuable to learn
  - it will help the project succeed
  - explain the reasons for having the Scrum events and artifacts
    - some students have never worked in a real sw project

During the project, correct misconceptions of Scrum.

Does Scrum cause overhead/problems or does the inherent complexity of larger, real projects cause them?

- Involve the developers in deciding how the team applies Scrum
- Document the decisions so that they
  - help the Scrum team (also the PO) apply Scrum
  - help the PO understand her responsibilities
  - help the coach understand how the team works



# **Setting up Scrum**

#### Sprint length

- frequent feedback and status check vs. less overhead from sprint change
- equal effort vs. equal duration?
  - exam weeks, x-mas break

#### First sprints

- try to finish Sprint 0 and Sprint1 before PR1 (25.11.)
- decide soon the start and end dates of Sprint 0
  - getting the project started quickly
- Sprint Planning is different for Sprint 0
  - if PO is busy, some planning is possible without her
  - you may also want to prepare before having a big kick-off meeting with the PO

# **Setting up Scrum**

- Scrum events
  - planning, review, retro (sprint change), Daily ("weekly")
- Scrum artifacts
  - Product Backlog
  - Sprint Backlogs
  - Definition of Done

What did you learn about these in the CSM training?

What will you try in your project?

# Setting up Scrum: Working with the PO

- Ensure that PO knows her responsibilities in Scrum and what that means in your project
- Prepare for the meetings with PO
  - Agenda
    - ensure that PO knows how she should prepare for the meeting
  - Converging the discussions
  - Someone writes down notes
- Try to get access to PO also during the Sprint
  - Further clarification of the chosen product backlog items
  - Quick feedback of completed items
  - Product backlog refinement to prepare for the next sprint planning



# **Setting up other Practices and Tools**

- Communication channels
  - Students, PO, coach
  - Some rules for the use of communication channels
- Time tracking
  - Started from the first day of the project (~16.10.)
    - even earlier, if 25h is not enough before the project starts officially
      - team building events, studying tools and technologies ...
- Development environment
  - if your need some hw/sw from the PO, note that it may take time



EES on We 6.11. 16:15-18

Exchanging experiences among the Scrum masters about Scrum adoption in their teams.

- Study, plan, teach and ensure the application of Scrum
- Prepare and lead the Scrum events
- Manage team building

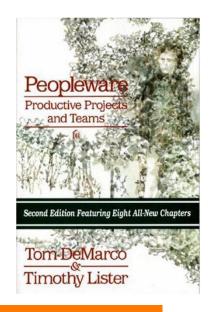
Getting a group of people look like a team

- Initiate discussions on any problems
  - if the team does not react to them
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# A Jelled Team (Dream Team)

"A jelled team is a group of people so strongly knit that the whole is greater than the sum of the parts. The production of such a team is greater than that of the same people working in unjelled form. Just as important, the enjoyment that people derive from their work is greater that what you would expect given the nature of the work itself."

(DeMarco & Lister, 1999)





#### **Characteristics of a Jelled Team**

- A shared vision or goal
- A sense of team identity
- Competent team members
- A commitment to the team
- Mutual trust
- Effective and open communication
- Interdependence among team members
- A sense of autonomy
- A high level of enjoyment
- Small team size

Can these be achieved in your team?



#### **Good Teamwork Practices**

- Good team name
- Team building activities
- Everybody participates in defining the common goals and planning of the tasks
- Informal and formal communication
- Accurate and unambiguous communication
- Check for understanding and agreement

encourage developers/PO to tell if they don't understand something

- Open communication raise (potential) issues immediately
- Constructive feedback



..and working together!

# **Being a Good Team Member**

Discuss these with your team members in the beginning of the project.

- Participate actively
- Remember: team goals are your goals
  - the project can be successful only when everybody works towards common goals
- Help other team members when they have problems or questions
  - ask if they need help even if they might not ask for that -> they are happy to help you when needed
- Ask help right away when you have problems or don't understand something
- Give feedback to other team members and to your Scrum Master
  - also positive feedback!
- Think about how you could make your project fun to work in ☺☺
- Motivate yourself



- Study, plan, teach and ensure the application of Scrum
- Prepare and lead the Scrum events
- Manage team building
  - team spirit, communication practices

#### Initiate discussions on any problems

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# **Solving Problems**

- Raise issues as quickly as possible that way small problems do not become big problems
- Involve the team in solving problems
  - except if the problem is related to an individual
    - you could (at least first) discuss privately with him/her
- Escalation
  - Coach
  - Course teacher

Ask help also from the other Scrum Masters!



# An Example of a Problem: Someone does not fully participate

- Talk/contact the person privately
  - Don't wait too long
- Try to understands the reason
  - Unclear tasks in the Sprint backlog
  - Lack of confidence/skills to take responsibility of any tasks
    - and no courage to admit it / ask help
  - Busy with other commitments / unsuitable work times
  - Has not understood that ~225h of work is really required to pass
  - Lack of motivation
  - **–** ...
- Many reasons are possible to fix



However, there will be drop-outs.

Try to minimize the effect to the rest of the team.

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- Work as a development team member
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  - make it clear to the team when you are working in the Scrum Master role



# **Community of Practice (CoP)**

- CoP is a group of people who share a concern or a passion for something they do and learn how to do it better as they interact regularly [1]
- CoP provides a way for practitioners to share tips and best practices, ask questions of their colleagues, and provide support for each other.
- Used in many organizations
  - recommended in agile scaling frameworks (SAFe, LeSS)
  - software project course at IT University of Copenhagen [2]

- [1] Etienne and Beverly Wenger-Trayner. "Introduction to communities of practice A brief overview of the concept and its uses". 2015.
- [2] Maria Paasivaara: Teaching the Scrum Master Role using Professional Agile Coaches and Communities of Practice. ICSE (SEET), 2021.



# Possible Topics to Discuss among the Scrum Masters [2]

- Challenges faced
  - sharing how other Scrum Masters have worked in a similar situation
- Scrum Master's role and responsibilities
- Understanding Scrum
- Team building activities
- Communication
- Tools
- Collaboration with the PO and coaches
- Course requirements
- ...

[2] Maria Paasivaara: Teaching the Scrum Master Role using Professional Agile Coaches and Communities of Practice. ICSE (SEET), 2021.



# **CoP for the Scrum Masters on the Software Project 3 course**

- Why
  - you will learn more
  - the projects will be more successful
- How
  - Online chat
  - Online document for collecting best tips and tools
  - F-2-f or Zoom meetings
    - · even with a small number of Scrum Masters
    - informal discussion while having coffee / lunch together
    - more formal meetings with an agenda
      - discussing some agreed topic(s)
      - discussing some materials everyone reads in advance
      - presentations/demos by some participants

Any volunteers who could organize the CoP (with help from course personnel)?



# **Next Steps**

- Choose your tentative number of credits (5-8)
  - Write it to the CS-C2130 Google sheet ("Student List")
- Topic selection
  - Send your Team "CV" to your favorite clients 1.-6.10.
    - mention all your team's strengths, but don't give unrealistic promises
    - you can mention, if the client is your #1 priority
  - Check the overlaps with other teams' topic preferences
    - · send the CV also to some Client that you will "certainly" get

Keep your topic prefs up-to-date!

- Reserve 10-min meetings with the favorite clients on 9.10.
  - use the CS-C2130 Google sheet ("Meetings after pitches"- sub sheet)
  - publish your team's Zoom link (to be used, if some client is not on-site)
- After the meetings, (re-)prioritize the clients you met



# **Next Steps**

- Scrum Simulation
  - Your goal:
    - Getting all team members to know each other
      - create name tags
      - if you haven't met before, ask everyone to introduce themselves
    - Increase your developers' understanding of Scrum
    - Increase your skills in the Scrum Master role
  - Before the session, remind the developers to read
    - Compact guide about the Scrum events in the Simulation
    - Scrum Guide / Scrum Primer
  - Arrive 16:00, i.e.,10 min before the developers to prepare your work area
    - Drawing your Scrum boards