

Scrum: overview

Small number of team members: 6 (+/- 2)

A time-boxed model:

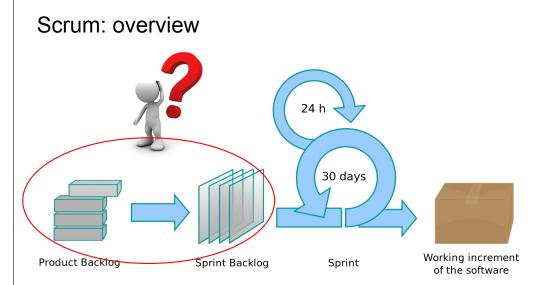
- Each Sprint (time box): max 30 days
- Fixed number of tasks for each Sprint
- Daily Scrum meeting: 15 min max
- Each sprint results in a
 - Sprint review (product demo): 0.5-1 hour
 - Sprint retrospective (post-mortem): 1-3 hours

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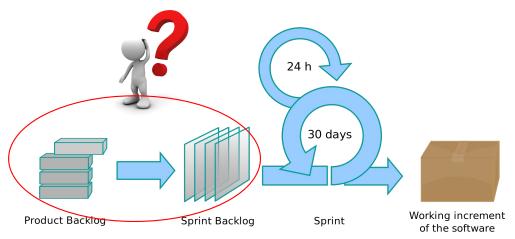
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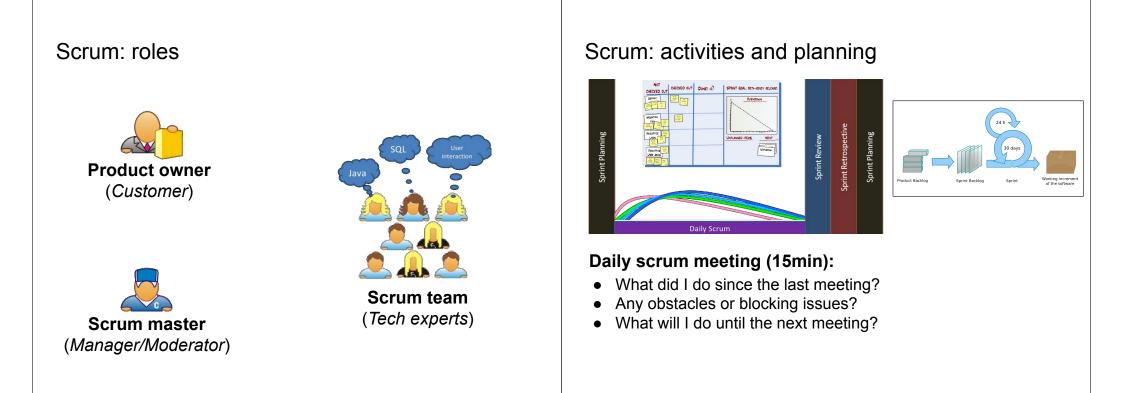


Scrum: overview



Prioritization:

Must have vs. Should have vs. Could have vs. Won't have



Scrum: sprint retrospective

Who and what?

- Product owner, scrum master, and scrum team.
- Reflect, change, improve





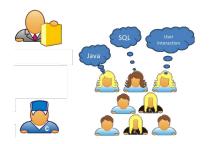
Continue doing

Start doing

Scrum: summary









Scrum: discussion

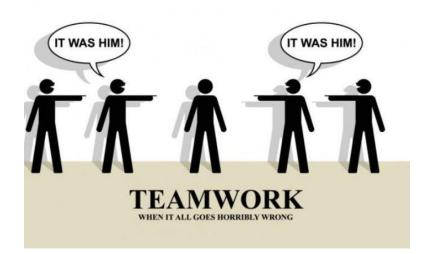


Will you use Scrum for your project?

- Yes (describe why)
- A variant (describe your variant)
- Need more infos (state 1-3 specific questions)
- No (describe why not)

Working in Teams

Working in teams is great



Seriously, working in teams can be great!

Benefits

- $\,\circ\,$ Attack bigger problems in a short period of time
- $\circ\,$ Utilize the collective experience of everyone

Risks

- $\circ\,$ Communication and coordination issues
- Lack of planning, reflection, improvement
- $\circ\,$ Conflict or mistrust between team members

Big questions

- **Communication:** How will everyone communicate?
- Decisions: How will your team make decisions?
- Structure: How do you divide your team into subgroups?

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Communication: powerful but maybe costly

- Communication requirements increase with increasing numbers of people (everybody to everybody: quadratic cost)
- Every attempt to communicate is a chance to miscommunicate
- Not communicating will guarantee miscommunication

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Communication: example

"Hey X, I was wondering whether you finished the Y feature you were assigned? Since we were late on some features last time, I thought I'd check. When you have time, can you please tell me when Y is done. Thanks, Z."

What do you think about this email?

Big questions

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Leadership and high-impact decisions

Who makes important product-wide decisions?

- One person?
- All by unanimous consent?
- Other options?
- Is this an unspoken or an explicit agreement?

Making decisions

- Delegate to subteams when possible
- Let everyone give their input (even if some is off-track)
- Write down pros/cons of alternatives
 - Evaluate cost/benefit/risks
 - $\circ~$ How long will it take? How much to learn? etc.
- Have a clear procedure for resolving disagreement
 - $\circ\;$ Strive for consensus, but if it cannot be achieved, ...
 - $\circ~$ Majority vote and PM decides on a tie, etc.
- Pareto: find 20% of work that solves 80% of a problem
 Know what the real problem is!
- Document, Plan, Prioritize

Most importantly: compromise, compromise, compromise

Big questions

- Communication: How will everyone communicate?
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Common SW team responsibilities

These following could be all different team members, or some members could span multiple roles:

- Project management
- Functional management
- Designers/architects
- Developers: programmers, testers, integrators
- Lead developer ("tech lead")

Key: Identify and stress roles and responsibilities

Team structure models

Dominion model

- Pros:
 - clear chain of responsibility
 - $\circ~$ people are used to it
- Cons:
 - single point of failure at the top
 - $\circ~$ little or no sense of ownership by everyone

Communion model

- Pros:
 - $\circ~$ a community of leaders, each in their own domain
 - inherent sense of ownership

Cons:

- $\circ~$ miscommunication, competing visions, dropped responsibilities
- many points of partial failure

