Scrum

Scrum 1 / 28

Scrum

Scrum

- a lightweight practice.
- simple to understand but very difficult to master.
- and iterative and incremental approach that enhances predictability and mitigates risks

structure & practices of Scrum

Scrum, based on three pillars

- transparency
- inspection
- adaptation

Scrum 2 / 28

Scrum & transparency

Transparency – everyone can see every part of the product

A visibility that is accessible to

- both people on the Scrum team
- and those outside common standards for the project

an important part of transparency

agreeing on common standards for the project:

- agreeing on common terminology to use throughout development
- and agreeing on what it means for a feature to be done.

Scrum 3 / 28

Scrum & inspection

inspection

Scrum encourages frequent inspection of work products and progress to detect undesirable deviations from expectations.

- "Scrum points out all of your flaws."
- These inspections should happen frequently, but not so frequent that they get in the way of development.
- » Developers sometimes are hesitant to adopt Scrum, because it points out everything they are not doing right.

Scrum 4 / 28

Scrum & adaptation

adaptation

During an inspection, when someone finds that the product development is starting to stray from the vision, the team must adjust and adapt to prevent further deviation.

Four specific techniques for inspection and adaptation in Scrum

- sprint planning,
- daily Scrum,
- sprint review,
- sprint retrospective.

Scrum 5 / 28

Quiz – Q

Who do you think the Scrum team consists of?

- A. the product manager,
- B. the client,
- C. the development team,
- D. the business executives.

Scrum 6 / 28

Quiz – A

Who do you think the Scrum team consists of?

- ✓ A. the product manager,
- ✓ B. the client,
- ✓ C. the development team,
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Scrum 7 / 28

Roles in a Scrum team

New names for the roles

- product manager Scrum master,
- the client product owner
- development team development team.

Scrum 8 / 28

Scrum development teams 1/2

self-organizing

"No one, not even the Scrum master, can tell the team how to take their backlog of features and turn them into increments of working software."

cross-functional

"The team consists of everyone and everything that they need to complete the product, possibly involving specialists from different areas."

- The team should not depend on others who are not on the team.
- team members take on mixed tasks, like doing both coding and testing, rather than having dedicated coders and testers.
- members of the development team have no titles
 only ever be referred to as developer, or their name, regardless of
 whether they are responsible for specific tasks.

Scrum 9 / 28

Scrum development teams 2/2

no sub-teams

Developers may have a specialized skill within the team. However, accountability belongs to the entire team.

small

ideally larger than three and less than nine.

- The Scrum master and the product owner are not included in that number unless they are contributing to development.
- A good rule: you should be able to feed your entire team with two pizzas.

Scrum 10 / 28

Which of these software product managers, if any, have a true Scrum development team?

- A. Kelsev. B. Jim, C. Billv, D. Carry, E. Hillary.
 - You're at a conference on Scrum practices. You have been talking to several other software product managers about their development teams.
 - The first SPM you talk to is named Kelsey. She describes her team as having four programmers, two testers, and one user interface designer.
 - Next, you meet Jim. He says his current team consists of 20 developers.
 - Next, you meet Billy. He simply says that he has a very talented team of seven developers.
 - Then you run into an old friend, Carry. She says her team has nine developers. Five are on the development team and four are on the testing team.
 - Finally, you meet a new software product manager, Hillary. She says her team consists of just three developers and they subcontract out their testing.

Scrum 11 / 28

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Scrum 12 / 28

the product owner

product owner

- A person who is responsible for the product.
- one person, not a committee
- The product owner could represent a committee, but only the product owner can suggest product changes to the Scrum team.
- responsible for the product backlog (a list of all the expected functionalities of the product).

on product backlog & priorities

- responsibility to provide the Scrum team with a clearly-defined product backlog with priorities
- The priorities must be respected and developed in that order.
- They have the ultimate say on what gets developed.
- duty of the product owner to make sure that the development team understands what is expected for the features in the backlog.

Scrum 13 / 28

- You are the software product manager who has been hired to work on a project for a Nike running app.
- You had your first meeting with your development team and the representative from Nike, Penny. The team decided that they were going to use Scrum.
- You were appointed as the Scrum master, and Penny would be the product owner.
- Your team is halfway into development and get an email from the CEO of Nike.
- He's requesting that the application has pre-made running playlists that users can listen to while they run.
- You know that your development team had already talked to Penny about this feature, and they decided as a team that they wouldn't implement this feature in favor of another one.

Following the practices of Scrum, what should you do?

- A. send him an email back saying, no, you get no say in this project,
- B. tell your development team to add the feature to the backlog,
- C. tell your development team to develop the feature for this iteration, or
- D. send him back an email asking for all feature requests to come through Penny.

Scrum 14 / 28

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Scrum 15 / 28

product manager – Scrum master & duties

duties

- make sure the Scrum team is adhering to
 - Scrum theory
 - practice
 - rules
- have specific duties to
 - the product owner
 - the development team

Scrum 16 / 28

product owner & duties

duties to the product owner

- finding techniques to manage the backlog,
- helping the Scrum team to generate a clear and concise backlog,
- ensuring that the product owner knows how to prioritize the backlog to get maximum value,
- facilitating Scrum events.

Scrum 17 / 28

the development team & duties

duties to the development team

- coaching the team to self-organize
- removing development roadblocks
- facilitating Scrum events

Scrum 18 / 28

scrum events

Scrum events, responsible for facilitating

Scrum events & four techniques for inspection and adaptation.

- Sprint planning
- daily Scrum
- sprint review
- sprint retrospective

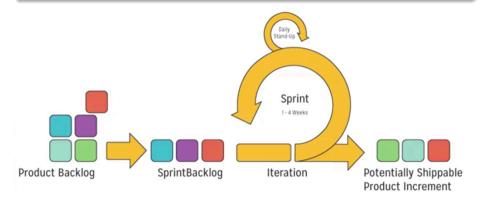
(also need to specify a maximum time for the duration of these events and adhere to that)

Scrum 19 / 28

scrum events & sprint

four Scrum events, organized into sprint

"A sprint is the development phase of the specific amount of time in which a working prototype is delivered to the client at the end."



Scrum 20 / 28

Sprint 1/3

sprint goal

- During the sprint, no changes can be made that will affect the sprint goal.
- The sprint goal is the big-picture view of what is going to get done in that sprint.
- Changes that will change the sprint goal will go into the backlog and can be implemented in the next sprint.

Scrum 21 / 28

Sprint 2/3

strict timing

- to keep the allotted time and adjust the scope, rather than keeping the scope and eventually delaying releases.
- A sprint lasts one month or less, typically one to two weeks.
- Once your Scrum team specifies the length of your sprints, they must consistently stay that length for the entire development process.
- Sprints cannot be made longer or shorter.
- At the end of each sprint, the client is delivered a working prototype.

Scrum 22 / 28

Sprint 3/3

Sprint planning

- occurs at the beginning of the current sprint
- to determine what will be completed in that sprint.

daily Scrum - a daily meeting

- at the beginning of each day
- developers talk about what tasks they will be doing and what they need to accomplish these tasks

sprint review and retrospective – at the end of the sprint

The next sprint begins immediately after the previous one ends.

Scrum 23 / 28

context

- Your team is developing a mobile app that allows users to search for food and drink specials at local restaurants.
- The sprint goal for this iteration is to set up the user interface.
- This is everything that the end user will see and interact with.
- Halfway through development for the iteration, the client sends you an
 email that they've changed their mind and they want the main colors
 of the application to be blue and white instead of red and black.
- They also request that they want the application to now support ads that pop up on the screen.

Which of these changes can be made to the current iteration?

- A. the color change,
- B. pop-up ads,
- C. both of them,
- D. neither of them.

Scrum 24 / 28

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Scrum 25 / 28

definition of done 1/2

done & purpose

to avoid having a bunch of work in half-done states (might result from the whole team working independently).

- an important part of scrum
- The working prototype that is delivered at the end of this print must be done.
- Agile Manifesto & progress

Scrum 26 / 28

definition of done 2/2

done & the development team

- "A feature is considered done when the feature is coded, tested, and documented."
- It is the responsibility of the development team to determine what qualities determine whether a product is done.
- The team must all completely understand what done means to their team.

To get a feature done

- requires and forces communication, integration, and synchronization.
- requires that development go slow to ensure that each feature is truly done.

Scrum 27 / 28

on adapting Scrum

scrum – all-or-nothing or individually

- Scrum recommends an all-or-nothing approach, [Like XP]
- the practices of Scrum can be implemented individually, and they stand alone better than some of the XP practices.
 - But if you implement the practices individually, you are not really practicing Scrum.
 - Practicing Scrum implies that it is practiced in its entirety.

scum in the real world

Adobe, Amazon, Microsoft, and Yahoo

flaws of Scrum?

Scrum 28 / 28