

## **Agile Manifesto**

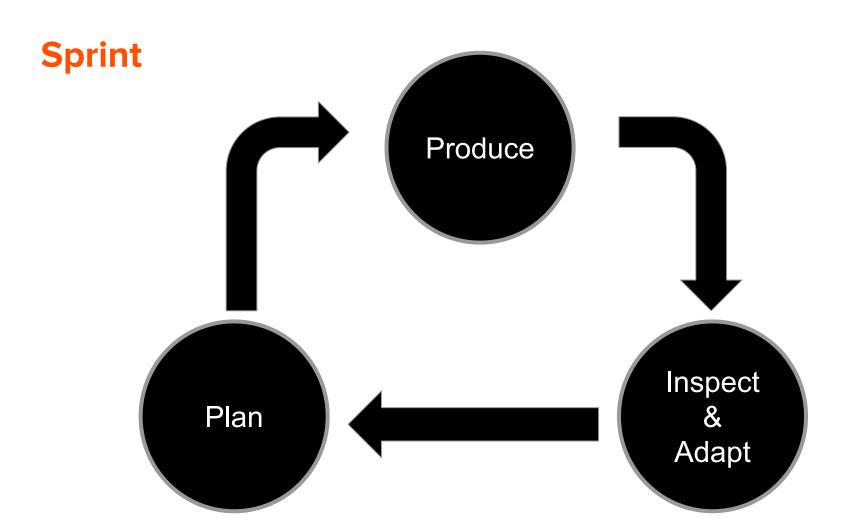
We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactions
Working software
Over comprehensive documentation
Customer collaboration
Over contract negotiation
Responding to change
Over following a plan

While there is value in the items on the right, we value the items on the left more.

### Scrum

- 1. There is a cross-functional Development Team it has the diverse set of skills necessary to produce "done" product in a Sprint.
- 2. The Dev Team is self-organizing it figures out how to get work done.
- 3. The Dev Team plans its Sprints one at a time, at the start of a Sprint.
- 4. The Product Owner decides what product needs to be produced.
- 5. The Dev Team decides how much product to target in each Sprint.
- 6. The Dev Team's target is shared, clear, and does not change in Sprint.
- 7. The Dev Team tries to hit the target, but it can over- or under-deliver.
- 8. Each Sprint is a timebox, and is never extended.
- 9. The Dev Team aims for "done" each Sprint = tested and defect-free.
- 10. There is a "Definition of Done," that tells us what "done" means.
- 11. At the end of the Sprint, we inspect and adapt product and practices.



# **Activity**

# **Airplane**

### **Plan**

- 1. During the Plan phase, the Scrum team sits together and plans for the upcoming Sprint.
- 2. This meeting is called as Sprint Planning meeting. Product Owner, Dev Team are involved in this meeting which is facilitated by the Scrum Master.
- 3. Ideally, Product owner is present in the meeting to clarify questions and doubts around the requirement. But, in Qwinix, for most of the projects BA/SM gets the requirements from the Product Owner and translates them user stories using the mock up and explains it to the Dev Team.
- 4. The Dev Team provides their estimation for each story during the planning meeting.
- 5. The meeting should be timeboxed to 2 \* (Number of weeks per Sprint) Hours.
- 6. This is a forecast, not a promise.

### **Produce**

- A sprint is a time-box during which the dev team aims to deliver a potentially shippable product.
- Daily Scrum / Stand up
- Daily Burndown chart
- Dev Team, Scrum Master and PO

## **Inspect and Adapt**

- Sprint Review : Inspect and Adapt Product
  - Who are involved: PO, Dev Team, Scrum Masters and Stakeholders
  - Meeting at the end of the Sprint (timeboxed to 1 hour x the number of weeks in the Sprint)
  - The PO, SM, Dev Team, and stakeholders get "hands on" with what the Dev Team has produced in the Sprint
    - We inspect the quality, and whether it is "done"
    - We inspect whether it truly serves customer needs
    - We try to find improvements to make in the future (Product Owner adds these on the Product Backlog)
- Get real-world customers or end-users to attend and give hands-on feedback

## **Inspect and Adapt**

#### **Sprint Retrospective:**

- Inspect and Adapt Process
- Last activity in each Sprint (timeboxed to
- 1 hour x the number of weeks in the Sprint)
- They create a specific plan of action for improving their practices in the next Sprint
- Probably the single most important practice in Scrum. The Scrum Team does this every Sprint!

### **Actors - Product Owner**

#### Product Owner is responsible for:

- Has the utmost understanding of the product
- Schedule, scope, and cost.
- Ensuring that the optimal business value is achieved
- Prioritizes the backlog
- Attends stand-up but shouldn't interfere
- PO maintains the Product Backlog, a prioritized list of everything that needs to be done
- PO role should ideally be played by the customer or someone who deeply understands the customers, stakeholders, or the market's needs

### **Actors - Scrum Master**

#### The ScrumMaster owns the "3 P's":

- Process Coach
- Problem Solver
- Protector
- The ScrumMaster is a "servant leader", helping the Dev Team and PO use Scrum to achieve the best possible results today, and improve their results in the future.
- ScrumMaster could be a Dev Team member or an ex-Project Manager but not the Dev Team's boss.

### **Actors - Dev Team**

Dev Team: Recommended size is 5-9 people

- Self-organizing
- Cross-functional
- Responsible for the delivery of the product
- Does size estimation of stories
- Estimation should include TDD effort



Cross-Functional (Designers, Coders, Testers, etc.)

## **TDD**

# **Activity**

## **Backlog**

#### **Product Backlog:**

 A prioritized list of all the functionalities and features maintained by the Product Owner.

#### Sprint Backlog:

- The Product Owner, ScrumMaster, and Dev Team plan each Sprint at the very start of the Sprint
- The plan they create and the items selected for development for that sprint is known as the Sprint Backlog

# **Mockups**



## **User Story**

#### CCC:

- Card, Conversation, Confirmation

#### Acceptance Criteria:

Requirements that have to be met for a story to be assessed as complete.

#### DoD:

- A useful subset of the functionality, meeting agreed acceptance criteria and built to an agreed-upon level of quality and "doneness" (the Definition of Done)
- Each team has its own DoD

### **Definition of Done**

- The Scrum Team (Product Owner, SM, Dev Team) creates the D.o.D. before first Sprint
- It can be changed (but we try to keep it stable to avoid confusion)

## Our Team's Definition of Done

The Product Increment is done if it is:

- Code complete
- Code reviewed
- Unit Tested
- Integration Tested
- Acceptance Tested
- System Docs and User Docs updated
- No Priority 1 or Priority 2 defects remaining

## **Estimation**

"Size" = Effort + Complexity + Uncertainty

#### Actors involved:

- Dev team: Estimate together for the overall size of the item
- Scrum master: Facilitate and clarify requirements
- Product Owner: To clarify requirements

## **Distributed Scrum Practices**

Model 1: Product Owner in US, Dev Team in India

- ScrumMaster should be located with Dev Team in India
- Start with short Sprints (2 weeks or less)
- Dev Team does Daily Scrum during India business hours
- After Daily Scrum, ScrumMaster emails list of blocks to the Product Owner, for assistance clearing
- All real-time meetings between Dev Team and Product Owner should be visual, not just audio
- Standing weekly call for Product Owner and Dev Team, to clear pending blocks, answer questions, etc. (in addition to lots of other interactions via email, etc.)
- Product Owner travels to India for start of first Sprint

### **Distributed Scrum Practices**

Model 2: Dev Team split between multiple locations (for example, half of Dev Team in India, other half in Europe)

- To be effective, team formation must occur
  - Ideally, Dev Team colocation for first Sprint
  - Ongoing "ambassadorship"
  - Multiple forms of continuous live communication
  - If you can't make this investment, may be better to organize them as two different Dev Teams
- Practicalities
  - Daily Scrum live via webcam
  - Scrum Artifacts (Sprint Backlog, Burndown Chart) done electronically, in a shared location

## **Velocity**

- Velocity is the average of the story points delivered (i.e., accepted) in a certain number of sprints. [ (no of story points delivered) 14+12+16/3 (no. of sprints) ]
- 2. Usual the average story points delivered in three random sprints is considered as the Velocity of the team.
  - Product Owner uses this to calculate a realistic date for the delivery.
  - Dev Team estimates their velocity using either past history, by doing a Sprint, or by doing a Sprint Planning Meeting.

## **Burndown Chart**

**Daily Burndown** Chart **Sprint Burndown** Chart Release **Burndown** Chart

## THANKYOU



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