COM3005J: Agile Processes Artifacts

From User Stories to Burndown Charts

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User Story





Source: Cohn

Defines an atom of functionality

See lecture on practices

Story Card



Source: Jeffries

From the original C3 project:

Customer Story and	Task Card	31h Development COLA
DATE: 3 19 91	TYPE OF AC	TIVITY: NEW: X FIX: ENHANCE: FUNC. TEST
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PRIOR REFERENCE:	RISK:	TECH ESTIMATE:
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Task Card



Source: Jeffries

From the original C3 project:

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Use Case

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Describes how to achieve single business goal or task through the interactions between external actors and system

One of the UML diagram types

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Use Case Example

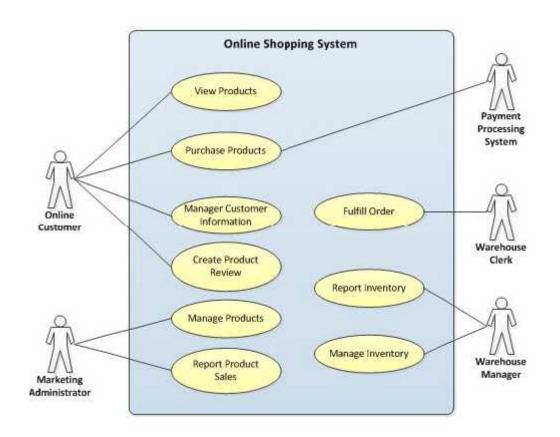


Diagram source: T. Lockman (Wikimedia Commons)

Use Cases vs User Stories

After Cockburn

"Think of a user story as a use

case at 2 bits of precision"

User story:

- > Very simple
- Written by customer
- Incomplete, possibly inaccurate
- Does not handle exceptional cases
- Starting point for additional discussions with customer

Use case:

- More complex
- Written by developer in cooperation with customer
- > Attempts to be complete, accurate
- Should handle all possible cases
- Intended to answer any developer questions about customer requirements without further interaction with customer

Product Backlog





- Maintained throughout project
- Property of product owner
- Open and editable by anyone
- Contains backlog items: broad descriptions of all potential features, prioritized by business value
- > Includes estimates of business value
- Includes estimates of development effort, set by team

Visualized in "task board" (see next)

Task Board, Story Board

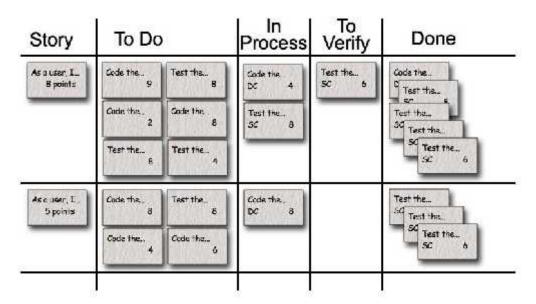


Source: Cohn, Anand

Used to see and change the state of the tasks of the current sprint: "to do", "in progress", "done".

Benefits:

- Transparency
- Collaboration
- Prioritization
- > Focus
- > Self-organization
- > Empiricism
- "Humility"
- Morale



Example source: Mountain Goat Software

Story Board

Source: Saunders



Velocity



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Measure of progress in a project:

Number of items delivered

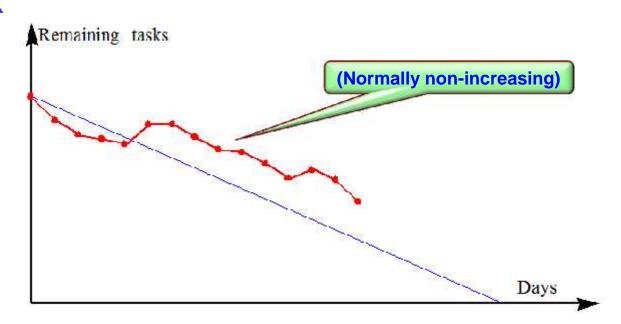
➤ Measured in tasks, user stories, backlog items...

Burndown Chart



Publicly displayed chart, updated every day, showing, for the sprint backlog:

- > Remaining work
- > Progress



Bullpen



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Single, open room (See "Informative workspace" principle)

Artifacts

Part E: Artifacts

What we have seen:

Virtual and material tools that directly support agile concepts