

SWINBURNE
UNIVERSITY OF
TECHNOLOGY

SWE20001 Managing Software Projects

Lecture 5a

Getting Sprint Backlog Item

- WBS (Estimating)



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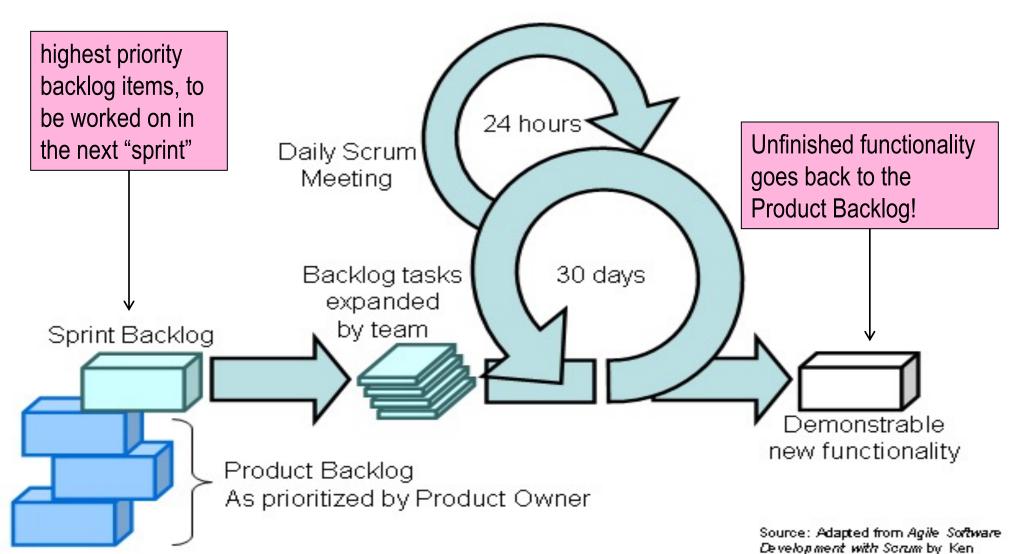
Sprint Backlog – What is it?

- A list of **items*** that are required to be done during the sprint
- Item = Item + its tasks (breakdown tasks) + estimated time for each task
- Determined by the Scrum team during the Sprint Planning Meeting

Scrum – The Process (Recap)



Schwaber and Mike Beedle.



Items in Sprint Backlog – Where from?



- From those items in the Product Backlog
- Developers to "discuss" with Product Owner to decide whether a particular product backlog is good for the "next" sprint

Items in Sprint Backlog – How to?



- Team members (Developers and Product Owner) to
 - ☐ Think about what to do with the item
 - □ Ask questions about the item so as to collect enough information to develop the item
 - □ Determine whether the item can be completed in the "next" sprint
 - ☐ Break down the item into smaller tasks
 - ☐ (for each task) Estimate the time required (efforts) to complete the task
 - ☐ If "total efforts required > a sprint", break the item down to smaller pieces so that it can be completed in one sprint
 - ☐ If "total efforts required < a sprint", fit "several items" into one sprint

Paint Your Bedroom Example (Recap – Lec1)



Scope

- ☐ An empty room
- □ No holes to patch
- □ 4 Walls same colour [what colour?]
- □ No doors
- □ No trims
- ☐ Ceiling different colour from walls [what colour?]
- □ Primer (Undercoat) + 3 coats of paint

Paint Your Bedroom Ex. (Recap – Lec1 cont'd)



- Product Backlog 1
 - ☐ Get Tools
 - □ Determine the colour of Walls and Ceiling
 - ☐ Get Paint
 - □ Paint the Walls
 - □ Paint the Ceiling

- Product Backlog 2
 - ☐ Get Tools
 - ☐ Get Undercoat for Walls
 - ☐ Get Undercoat for Ceiling
 - □ Get Paint for Walls
 - ☐ Get Paint for Ceiling
 - □ Get Masking Tapes
 - □ Paint Undercoat
 - ☐ Paint First Coat
 - ☐ Paint Second Coat
 - □ Paint Third Coat

Example: Peer Review System – Sprint Backlog

Item 1: Allow a student to submit their peer review assessments about their team members

□ Peer Review Form (?)

☐ Online submission (via Web site?) / Submission via mobile apps (?)

☐ One member per submission (?)

☐ All team members in one submission (?)

☐ Any other questions (?)

Example: Peer Review System – Sprint Backlog

■ Item 1: Allow a student to submit their peer review assessments about their team members [Task breakdown via WBS]

- ☐ T1: Design the form
- ☐ T2: Program the form (Web? / GUI?)
- ☐ T3: Design database table / schema for the peer review submission
- ☐ T4: Program the module for submission (extract info and save to database)
- ☐ T5: Design test cases for submission
- ☐ T6: Test the correctness of the submission module
- ☐ Any other tasks (?)
- ☐ Any dependencies (?)

Example: Peer Review System – Sprint Backlog Item 1 + Tasks



Task Id	Desc	Depends on	Duration (hrs)
T1	Design the form		1
T2	Program the form	T1	1
T3	Design database table / schema for the peer review submission	T1	1
T4	Program the module for submission (extract info and save to database)	T2, T3	3
T5	Design test case for submission		1
T6	Test the correctness of the submission module	T4, T5	1

Ex.: Peer Review System – Sprint Backlog Item 1 – WBS

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Qn 1: Is this good enough?

Ans: Depends.

Qn 2: Can it be broken down

further to even smaller tasks?

Ans: Yes, it is possible.

Qn 3: But how?

Ans: Let's do this in Lecture.

The result may be different

from the previous version.

