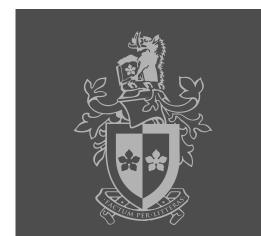


SWINBURNE
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# **SWE20001 Managing Software Projects**

Lecture 1d

Writing Product Backlog



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## **Scope [Working definitions]**



- Things to do in the project
- Identify the boundary of the project
- Within the boundary Within the scope need to do it
- Outside the boundary Out of scope refuse to do it
- On the boundary (?) grey area need negotiations

# Q: What if the client is desperate to have something from outside the boundary?

### **Product Backlog – What is it?**

- A list of items that are required to be done for the project
- Written by the Product Owner (e.g. customer rep.)
- Have some indication about the (relative) importance of the items
- Team members (i.e. developers) select the items in the Product Backlog to be developed during Sprint Planning Meeting
- Items need to be specific enough for development

#### **Product Owner – What to write?**



#### Q: WHERE TO START?

- Within Scope break it down to smaller things
- Based on usage scenario
- Based on user stories
- Based on software features
- Based on functional requirements
- Based on non-functional requirements
- Based on "things" needed to be done in the project
- Based on ...

## **Example – Paint your Bedroom**

Assume that you want to paint your Bedroom

- How much time you need to finish this item?
- Make a guess first, then move on



## Paint Your Bedroom – Define Scope



#### Things to be considered

- An empty room / room with furniture (?)
- Any holes to patch (?)
- 4 Walls (?) same colour / different colours (?)
- Door (?) same colour / different colours (?)
- Trims (?) same colour / different colours (?)
- Ceiling (?) same colour as walls' / different (?)
- How many coats of paint you need?

#### **Example: Paint Your Bedroom**



#### 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

## **Example: Paint Your Bedroom (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 – Context**

You are given the task to develop an electronic system to facilitate the submission and subsequent analysis of peer-reviews for a project-based university unit with multiple teams.

The system must enforce authentication of all users, validate all peer review submissions based on predefined validation rules, and allow for a semi-automatic analysis of all peer reviews.



Each student has to submit an evaluation of every member in his/her team (including self). A rating from 1 to 5 is required on several aspects of teamwork, together with a paragraph of text that gives a holistic description of the individual's contribution.

#### **Example: Peer Review System – Present Situation**

- Students to fill out the peer review forms and submit it via email
- Convenor to collect and analyze the review
  - □ Manual process
  - ☐ Time consuming
  - ☐ Error prone
- Electronic submission and analysis
   can help convenor to solve these issues
- An <u>example</u> of Peer Review Form





#### **Example: Peer Review System – Product Backlog**



#### **OK Examples**

- Allow a student to submit the peer review assessment of one of their team members
- Allow a student to resubmit their assessment of a particular team member and override the previous submission
- Allow a student to modify their previous submission of a particular team member

#### **Bad Examples**

- Allow a student to submit a peer review assessment of their team members
- Build the menu of the peer review system
- Build the UI for the peer review system
- Build the database for the peer review system

## Example: Peer Review System – Product Backlog (cont'd)



- Allow a convenor to generate the performance report of a student based on the peer review assessments
- Allow a convenor to configure the peer review form used in their units

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#### **Product Backlog – Reflection**

- How to write product backlog?
- Any criteria?
- What are the "Dos"?
- What are the "Don'ts"?