SWE20001 Managing Software Projects > Sprint 1 Stage > Credit Task 61C, Estimation Method

Table of Contents

Modification History

Date (created / modified)	Purposes
2022-01-19	Convert to asciidoc format and modify for 2022 S1
2022-02-27	Fix minor issues

Overview of Credit Tasks 61C and 62C, Software Effort Estimation and Accuracy Reflection, in Sprint 1

In Sprint 1, your team is required to perform an estimation on the effort for the sprint backlog items to be developed during the sprint. In this credit task, you need to demonstrate your understanding of the basic estimation technique as discussed in this unit so far.

For Credit Task 61C, you are required to use the Work Breakdown Structure (WBS) approach to estimate the effort required for a sprint backlog item, and collect the evidence to show your estimations is good (within 10% range).

For Credit Task 62C, you are required to report your estimation accuracy based on the actual development effort completed by the team and reflect for future improvements.

Credit Task 61C, Estimation Method - Individual Task

This document describes Credit Task 61C for your Doubtfire submission purposes.

This task aims to give your some practices on how to estimate the effort required to build a sprint backlog item using the WBS approach.

Suggested Timing

Start	Week 6, Day 1 of your Sprint 1
Feedback	Ask your tutor in Weeks 6 or 7 Tutorial classes
Due	Week 8 Tuesday (26 April 2022) 9:00am[1]

Task Overview

Purpose	To demonstrate your understanding about using WBS to estimate the effort required to develop a sprint backlog item
Tasks	**Estimation Method** 1. To use the Work Breakdown Structure (WBS) approach to estimate the effort for developing a sprint backlog item 2. To perform the actual estimation
Co-task[2]	Pass Task 08P
Follow-up Task[3]	Credit Task 62C
Resources	Lecture 1 Scrum Lecture 6 Sprint Planning Meeting Lecture 6a Sprint Backlog Lecture 6b WBS Lecture 6c Estimation Part 1
Feedback	Ask your tutor for feedback

Tasks and Instructions

1. Select a sprint backlog item (in Sprint 1) that your team has planned for development
2. Use the Work Breakdown Structure (WBS) method other than “pure guessing” to estimate the effort required to develop this sprint backlog item

You need to include your WBS and justify your reasoning in your submission document.

3. Perform the actual estimation and document your working out

1. Each task on the leaf node of the WBS must be completed within a day's work (ideally, it should be half-day's work) for real. However, for the purposes of this unit, your estimates must be within the following options: 30 minutes, 60 minutes, 90 minutes and 120 minutes.
2. **If your estimate about a task is about 45 minutes, use 60 minutes instead.** This will give you some leeway.

You need to document your reasoning in your submission document.

Submission Details

Submission Format and Personal Details

Submit a pdf document in **portrait** mode[4] to Doubtfire. Remember to include the following details in the document for submission:

- Your name and student ID
- Your tutorial class including your room location (e.g. Tue 12:30 EN310)
- Your tutor's name
- Your own responses to the tasks

What to submit

Submit your effort estimation document in pdf format, make sure you include the corresponding WBS and your justification about the estimate.

[1] Week 8 Monday (25 April 2022) is a public holiday.

[2] You need to complete the co-task together with this task

[3] You need to complete this task in order to do the follow-up task because the follow-up task depends on your work in this one.

[4] Landscape mode pdf does not work properly on Doubtfire.