

SWE30010 Development Project 2: Design, Planning and Management

Sprint #2 Stage

Overview

You have done your first sprint (Sprint #1). Now, it is time for your second sprint. In this sprint, you use your previous data to help your sprint planning process, that is how the agile process is supposed to be and how the professionals do it. I also want you to experience these changes.

Sprint #2 – Some Differences from Sprint #1

This is Sprint #2.

Your team has just finished the first sprint. Your team is now required to perform another sprint to continue the development of the product, basically by identifying and developing items from your Product Backlog list (may be new or any unfinished items in your previous sprint – these unfinished items should now be put back in your Product Backlog).

Total work hours for the team in Sprint #2: Now that you have your team's actual velocity of your Sprint #1. You need to use this velocity in your current sprint planning meeting (16 Pass Task 9.1). You have a strict guideline to do this, please see the details in the task description below.

How your Sprint works:

We are doing 2-week sprints.

Start Sprint #2 on Monday in Week 9 (Day 1 of Sprint #2).

Day 10 of your Sprint #2 will be Friday the following week.

Suggested time frame of a 2-week sprint in Sprint #2 for DP2 purposes

Week	Your selected day	Tutorial day
9	Day 1	Feedback from Tutor
10	Day 6	Feedback from Tutor
11		Sprint review and Sprint retrospective

Sprint #2 Group:

For the group tasks in Sprint #2, you need to register your team in Doubtfire under the "Sprint #2 Group Tasks" and submit it as a group. Please do not call yourself "Sprint #2 Group" as there will be potential conflicts in group names.

22 Pass Task 11.4P – Group Task

This document describes the pass task 11.4P, for your DoubtFire submission purposes.

Suggested Time Frame: Week 9 – 11

Start: Week 9

Feedback: Ask Tutor in Tutorials in Weeks 9 – 11

Due: Week 12, Tuesday, 9:00am

Table 1 Overview of 11.4P for Sprint #2

Purpose:	Document and justify your software design
Tasks:	Software Design 1. Document the software design as of Sprint #2 2. Justify the design
Pre-req Task₁	19 Pass Task 11.1P
Follow-up Task₂	23 Pass Task 11.5P
Time:	1 hour

¹You need to complete the pre-req (pre-requisite) task before doing this task.

²You (as a group) need to complete this task in order to do the follow-up task because the follow-up task depends on your answer in this one. Strongly suggest you keep the same group if possible. Do the follow-up tasks before the next tutorial and then ask feedback in the tutorial.

Resources:	https://en.wikipedia.org/wiki/Scrum_(software_development)
Feedback:	Ask your tutor for feedback

22 Pass Task 11.4P Document and Justify your Software Design [Group Task]

1. Document the design of the software components for your software system completed **after Sprint #2** (that is, the cumulative design after Sprints #1 and #2)

Hint #1 Remember to use design diagram to show the interactions between different software components (e.g. class diagram, sequence diagram, ...)

Hint #2 Clearly indicate those belongs to Sprint #1 and those added in Sprint #2.

Hint #3 In case, you have refactored your design after Sprint #1, you need to discuss the change(s) and why such change(s) is(are) needed.

2. Justify your design is following good design principles (followings are some suggestions, you may have others)
 - a. Having strong cohesion and weak coupling
 - b. Having good OO principles
 - c. Using appropriate design patterns (e.g MVC), algorithms, data structures, and architectural styles

Submission Details and Assessment Criteria

Each team needs to create a new group on Doubtfire called it Your Sprint #2 Group. Each team needs to create a document (pdf) in **portrait** mode³. You need to organize yourselves so that a person in your team will be responsible for uploading the document to Doubtfire, with the following details:

- Your names and student IDs
- Your tutorial class (e.g Thu 12:30 ONL068 or Thu 12:30 ONL069)
- Your tutor's name
- Details (name and student ID) of your team members
- Your group responses to the tasks according to the corresponding instructions

Remember, whoever submits the document the latest will overwrite the previous submissions. Since Doubtfire does not keep the previously submitted documents, the previous submissions will be gone forever.

What to submit

Submit the software design as a pdf file

³Landscape mode pdf does not work properly in Doubtfire.