

SWE30010 Development Project 2: Design, Planning and Management

Sprint #1 Stage

Overview

Project Environment / Context

Your project proposal of "PHP-SRePS / the selected project" has been accepted and agreed by "People Health Pharmacy / Your Client". The entire development team is using the Scrum agile development process with a two-week sprint. Your team consists of 4 – 6 members. You can choose your own development languages (e.g. Visual Basic, C# or Java). You cannot use or customize any existing project (open or closed) because this is a "development" project not a "customization project".

This is Sprint #1.

For simplicity, the working time is 8 hours per week per person in your team. In fact, for sustainable development, it is suggested that each individual should spend one – two hours per working day for the entire 2-week sprint. So, a team of 6 people should have a total of 96 hours of work in your 2-week sprint whereas a team of 4 has 64 hours.

How your Sprint works: We are doing 2-week sprints. Start Sprint #1 on Monday in Week 6 (Day 1 of Sprint #1). Day 10 of your Sprint #1 will be Friday Week 7.

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

Week	Your selected day	Tutorial day
6	Day 1	Feedback from Tutor
7	Day 6	Feedback from Tutor
8		Sprint review and Sprint retrospective

Sprint #1 Group: For the group tasks in Sprint #1, you need to register your team in Doubtfire under the "Sprint #1 Group Tasks" and submit it as a group. Please do not call yourself "Sprint #1 Group" as there will be potential conflicts in group names.

14 Pass Task 8.4P – Group Task

This document describes the pass task 8.4P, for your DoubtFire submission purposes.

Suggested Time Frame: Weeks 6 – 8

Start: Week 6
Feedback: Ask your tutor in Tutorials in Weeks 6 – 8
Due: Week 9, Tuesday, 9:00am

Table 1 Overview of 8.4P for Sprint #1

Purpose:	Document and justify your software design
Tasks:	Software Design 1. Document the software design after Sprint #1 2. Justify the design
Pre-req Task₁	11 Pass Task 8.1P
Follow-up Task₂	15 Pass Task 8.5P
Time:	1 hour
Resources:	https://en.wikipedia.org/wiki/Scrum_(software_development)
Feedback:	Ask your tutor for feedback

¹You (as a group) 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.

14 Pass Task 8.4P Software Design [Group Task]

1. Document the design of the software components for your software system completed in Sprint #1

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

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 #1 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.