

SWE20001 Managing Software Projects > High Distinction Task 82HD, Software Development Methodology Comparison

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Modification History

Date (created / modified)	Purposes
2022-01-21	Convert to asciidoc format and modify for 2022 S1
2022-02-26	Fix minor issues

How many HD Tasks should I complete to get an HD grade?

The answer to this question depends on the marks that you want to get in this unit. Please see the table below.

Grade / Mark range	Number of pieces of HD work completed with HD quality	Marks consideration
HD / 90 – 100	TWO pieces	Start with 95 and do some adjustments
HD / 80 – 90	ONE piece (It is OK if you do just one piece and it is up to HD quality)	Start with 85 and do some adjustments



If you do two pieces and none of them are of HD quality, you will not get an HD grade.

HD Task 82HD, Software Development Methodology Comparison - Individual Task

This document describes [HD Task 82HD](#) for your [Doubtfire](#) submission purposes.

This task requires you to write an essay to demonstrate **your** deep understanding on Software Development Life Cycle (SDLC) models.

Suggested Timing

Start	Week 7 (the earliest start time can be even earlier if you really want)
Feedback	Ask your Tutor in your Weeks 7 – 12 Tutorial classes
End	Week 12
Due	Week 12 Monday (23 May 2022) 9:00am (allowing tutor to have time to give you feedback)
Due (Final, Absolute)	Week 14 Monday (6 June 2022) 9:00am (the Portfolio submission deadline)

Task Overview

Purpose	To demonstrate a deep understanding on the unit material
Tasks	To write an essay to compare agile methodologies with traditional software development methodologies
Resources	All materials in the unit Some independent research is needed EndNote for referencing 82_R_HD_Research_Report_Template.docx
Feedback	Ask tutor for feedback

Tasks and Instructions

Write an essay that compares an agile methodology (e.g. Scrum) with a traditional software process model (e.g. Waterfall or Iterative development) in the context of a particular software project that "you have been involved with"^[1] (e.g. call this project "**SExploreApp**"),

Below are some suggestions using Waterfall as the placeholder, also remember to replace

"SExploreApp" with the actual project name in your title:

- "Is Scrum better than **Waterfall** in the context of the **SExploreApp** software project?"
- "Scrum is better than **Waterfall** – a case study of the **SExploreApp** software project"
- "**Waterfall** is better than Scrum in the context of the **SExploreApp** software project"

Please see [82_R_HD_Research_Report_Template.docx](#) for some suggestions and details of the formatting and referencing requirements.

Hints on writing an essay / a research article

The aim of the essay is to present *your experience* about Traditional SDLC vs Agile SDLC and explain it to other SWE20001 students (i.e. they are the target audience).

You may assume your audience have good knowledge on traditional software development process model such as Waterfall or Spiral as well as agile development models such as Scrum. So, a detailed overview of these models in the articles are not necessary.

There is no pre-defined structure that you must follow, however the following constraints apply:

1. It should have an "Abstract" section giving a brief overview of your discussion.
2. It should have an "Introduction" section giving a detailed overview of the article.
3. It should have a "Background" section giving a detailed overview of your project.
4. It should have a "Main body of discussion".



This may contain multiple sections depending on the actual context and the flow of your writing.

5. It should have a "Conclusion" section summarizing your discussion.
6. It should be written in a way that best presents your thoughts and arguments.

There are many resources on how to write an article / essay (or, a "term paper" in US terminology). For example, please see <http://www.wikihow.com/Write-a-Term-Paper>.

In writing the article, we may need to cite other people's writing and ideas. There are many software tools for citation purposes, a suggestion is "EndNote" if you are using MS Words in writing. Please see [Swinburne Library's Resources on EndNote](#) for details.

Submission Details

Submission Format and Personal Details

Submit a pdf document in **portrait** mode^[2] 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 completed research article in pdf format

[1] It can be a project in your study (e.g. one of your projects in your previous project-based units that involve teamwork or your project in your final year project). It can also be a project in your work place. In this case, you may want to hide / anonymous the company name and the application name. Remember your discussion in the article should address **all** learning outcomes of SWE20001.

[2] Landscape mode pdf does not work properly on [Doubtfire](#).