

# Group Assignment – Rapid and Agile Application Development

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**Description:** This is a graded and mandatory assignment that shall be solved and reported together with your assigned group.

**Deliverables:**

1. Weekly deliveries of completed stories in the application to your customer
2. Documents from daily scrum, retrospective and reviews
3. Postmortem – Written report

**Grading:**

This project is graded on 100 points.

The project's 100 points are divided as follows:

- 30 points for your personal performance in the group
- 15 points on your frequent submissions to the project. You are expected to have at least two correct and meaningful submissions each week where you have added new functionality or fixed a serious bug in the system. In each sprint you will receive maximum of 03 points
- 30 points on how well your group and you personally have followed the process and the practices proposed in the project description.
- 25 points on your analysis in the postmortem report. This is based on the completeness of your report and the depth and breadth of your analysis of the project, delivered product and methods used.

## Description of assignment and practices

### Task 1 – Logging

During all the work you do on this project you must log how much time you spend on each activity and which person(s) in your group does what. Your log should be added as an appendix to your postmortem report described below. Furthermore, the scrum master should have a report for each week specifying how much each person has worked and on what task. This report should be submitted to the GIT repository in a directory called "process" prior to the start of next sprint. In your submissions, the name of all the people working on that submission should be specified in the commit comment to the GIT repository. This should be done in the following format at the end of your comment:

1\_Developers: [name\_Developer1], [name\_Developer2]

2\_Time: [Ideal\_time\_HH:MM]

3\_Use\_case: [UserStory\_No\_from\_ClickUp], [Name\_of\_US]

**Task 2 – Scrum**

The main process that you are to follow in this project is Scrum. You will assign a unique scrum master in the start of each sprint who documents the progress of your project in a backlog, which will be shared with your customer through your repository. In the start of each sprint you will have a sprint planning meeting. Furthermore, in the beginning of each development day you will have a short stand-up meeting.

ClickUp is the software to be used for management of your project. The software can be accessed from <https://clickup.com/>

**Task 3 – Postmortem report**

You should conduct a postmortem analysis of the project of your group assignment. The results from the postmortem meeting should be reported in a pdf file not longer than 10 pages excluding the appendix and uploaded to your repository.

1. Which processes and practices did you use in your project? Show all the steps in time, describe what they constituted.
2. Based on the process description from question 1 and the detailed logging information you should summarize how much time was spent (in total and by each group member) on the steps/activities involved as well as for the project as a whole?
3. For each of the techniques and practices used in your project you should answer all the questions:
  - a. What was the advantage of this technique based on your experience in this assignment?
  - b. What was the disadvantage of this technique based on your experience in this assignment?
  - c. How efficient was the technique given the time it took to use?
  - d. In which situations would you use this technique in a future project?
  - e. In which situations would you not use this technique in a future project?
  - f. If you had the practice/technique in a part of the project and not the entire project, how was using it compared to not using it?
4. For your next project which set of techniques (that you used here or that you have not used here but know from theory or other projects) would you use? Why? Clearly motivate your selected set of techniques and discuss how they complement each other. How much time is needed to effectively use the technique?
5. Compared to other projects using a more plan driven/waterfall process what were the benefits and drawbacks with the process used in this project?
6. What worked well in how you worked in this project?
7. What did not work well in how you worked in this project?
8. How did you work together as a group in the project? What worked and not in your interaction(s)?
9. What would you do differently in a future but similar project?

## Rules of Conduct

This assignment is to be performed by and within your group. Be advised that any form of plagiarism will render an immediate fail on the course, and the matter will be reported to the university disciplinary board. Everything you hand in must be written by your group or properly quoted. Please note that you are responsible for everything that bears your name no matter if it is a group assignment or an individual assignment.

## Excuses we have already heard

The following is a list of excuses for not referencing material properly that we have already heard and will not accept. This is not a complete list of excuses you may very well come up with a new and innovative excuse that we have not heard but is equally invalid.

Excuse 1: "I did not know that I had to add a reference."

Answer. Anything that you have not written or thought up yourself must be referenced.

Excuse 2: "I added the reference at the end of the paragraph that I copied."

Answer. Your fault here is that you copied a sentence, paragraph, or a whole section word by word from another source. This is called a quote, which you surround by quotation marks (a "and a"). You should try to avoid using quotes. We are much more interested to see your interpretation of what you have read and/or heard (with proper referencing to the inventors of the ideas that you present).

Excuse 3: "The reference [to the copied paragraph] is in the section heading."

Answer. This is not only as wrong as the aforementioned, but also ugly.

Excuse 4: "The reference [to the copied paragraph] is in the reference list."

Answer. This is basically another variant of excuses 2 and 3. As soon as you use the text or ideas of someone else in your work, you provide a reference so that the readers can understand that they are no longer reading your ideas, your thoughts, your labor.

Excuse 5: "I interpreted it as an exercise in forming a report, not actually writing it."

Answer. When we read an assignment, we do so to provide the best possible feedback to you as a student so that you may learn something. To hand in text that you have not written yourself is not only depriving yourself a valuable opportunity for feedback and personal improvement, it is also nonchalant towards your fellow students that could have made better use of the teacher resources.