

# COMP3014 Network Simulation Project

## Group Work Guidelines

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### Group work using task-based project management

In this project you will work in groups of 3 students. You will initially meet (online or in person) to prepare your group work contract and breakdown on the project to task and assigning them to members.

Your mark for this project (50% of your final mark) will be calculated with the following equation:

$$Student_A \text{ Score} = \frac{\sum \text{Score for } Student_A \text{ tasks}}{\sum \text{Scores of all tasks}} \times \text{Total mark of the project} (0-100) \times \text{Number of students} \quad (1)$$

For example if Nima has done 40 tasks (total score) and the group's total tasks score was 120 and the total mark for the project was 80 for a group with 3 members it will be calculated as follows:

$$Nima's \text{ Score} = \frac{\sum 40 \text{ tasks}}{\sum 120} \times 80 \times 3 = 80 \quad (2)$$

You can use the following table to break down the entire project into a number of smaller tasks. The total score of each student's tasks should be equal to the others. For example if the total of all task scores are 100 then each student should have a task score of 33.3 (100/3 members). You should define an initial deadline for each task (this should be before the actual deadline of the project). If Student A does not complete the task by then, that student will lose the score for that task. Another student can take responsibility for that task and they will receive **half** of the initial scores for that task (if completed).

	Score (0-10)	Deadline	Assigned to
Task 1	4	dd/mm/yy	Student A
Task 2			
Task 3			
Task 4			
...			
...			
...			

Table 1: Project Task Breakdown Table Template

Table 2: Project's Student Score Breakdown Table

	Total Student Score	Total Student Score / Total Tasks Score
Student 1		
Student 2		
Student 3		
Total		

You should make sure the tasks are not too big and also not too small. Examples of tasks could be setting up and maintaining the Trello board, preparing the Virtual Machine and Ubuntu installation, Installation of ns2, running the test command etc.

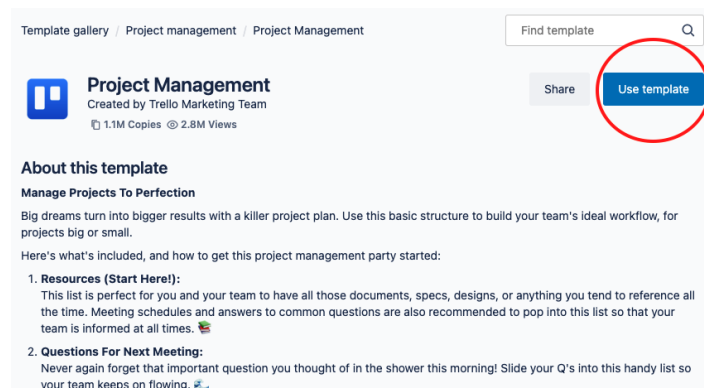
## Group work Contract

You can use the template for the group work contract that will allow you to negotiate the ground rules of your collaboration on the project.

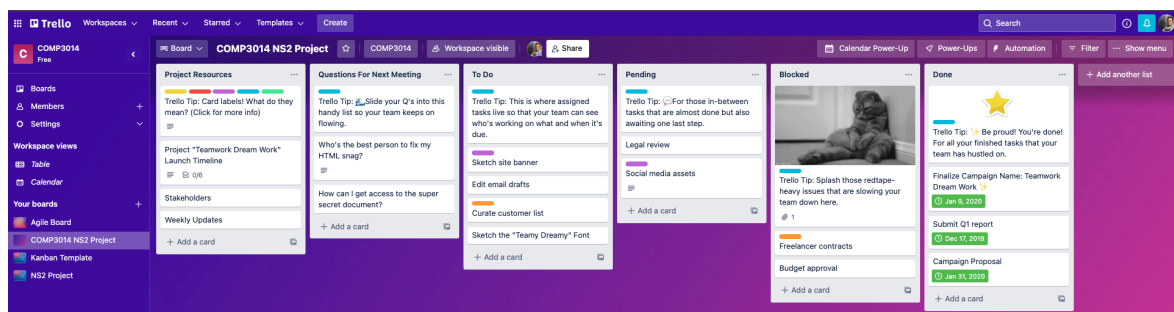
## Trello: A tool for managing the tasks and the project

To better manage the tasks and the project I recommend using the Trello tool which allows you to collaboratively document the progress of your project.

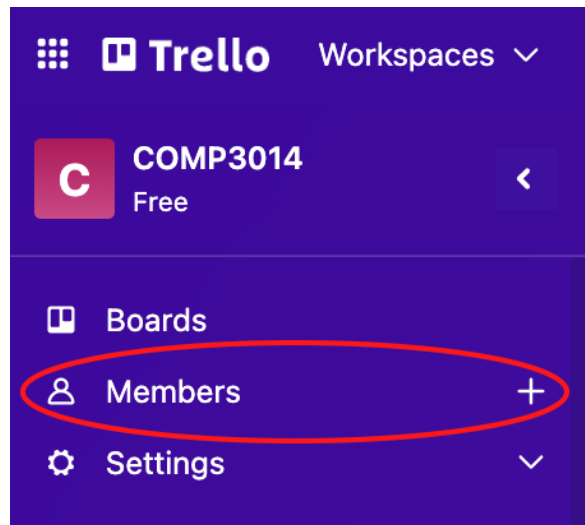
1. To create a project management board, a member of you group should open the following link, register in the Trello website and create a new board for your group using the "[Project Management Template](#)".



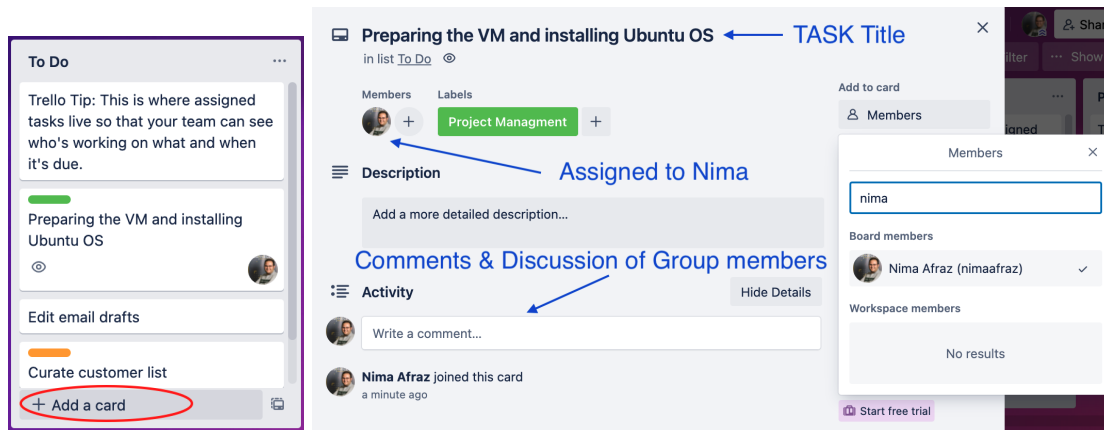
2. Once you choose the template, a new board will be created for you and you can see the different sections of it. Feel free to change the template and remove some of the lists if you don't think they are necessary.



3. Now you can add new members from your group to this board. You can use their email addresses.



4. You can now create a new card for each task and assign the task to one of the members.



## Group Submissions and Deadlines

1. Finalised Group Contract signed by all Members and the preliminary task/score table (submit as a pdf): Submission Deadline end of week 6, **Sep 30th 2022**.
2. Trello board setup end of week 7 (submit as a pdf and link to Trello Board), **Oct 7th 2022**.
3. Final group report including the task/score (Tables 1 and 2) table: Submission Deadline **Friday Nov 2nd 2022**. The Final Report should be maximum 10 pages and explain in detail the project implementation (Part A and Part B) and the answer the questions in Part C.