

# CMPG 315: PROJECT SUMMARY

## Table of Contents

<b>Overview:</b> .....	2
Scenario: .....	2
<b>Group Task 1: Preparation</b> .....	3
Complete courses: (or similar) .....	3
Write reflection ( <b>250 words</b> ):.....	3
Meet in person: .....	3
Timeline: .....	3
Draft submissions: .....	3
<b>Group Task 2: Continuous Reporting</b> .....	4
<b>Group Task 3: Topological Network Design</b> .....	5
<b>Group Task 4: Text Messaging App Development</b> .....	6
<b>What to submit on eFundi</b> .....	7
<b>Notes, considerations, and penalties</b> .....	8

## Overview:

### Scenario:

- No suitable network infrastructure, only a business ISP fibre connection and ONT.
  - Set up new office network.
  - No high expenses, keep cost at a low and satisfy requirements of company.
  - Network should support all computer equipment that were purchased as part of expansion. Equipment should also be included.
- 
- Addition to setting up a network,
  - Develop a **small, simple, text messaging app**. Can be used for non-confidential communication inside organisation.
  - Computers will run Windows. Thus, it should work on Windows.
  - Must work over Internet and fully portable. Reason: work from home and abroad

# Group Task 1: Preparation

(Recommended to complete by 29<sup>th</sup> March)

## Complete courses: (or similar)

<https://www.udemy.com/course/managemytime/>

<https://www.udemy.com/course/git-started-with-github/>

<https://www.udemy.com/course/git-expert-4-hours/>

<https://www.udemy.com/course/project-and-project-management/>

<https://skillsforall.com/topics/cisco-packet-tracer>

## Write reflection (250 words):

- Discuss soft skills you learned from courses.
- Reflections of all members of group is to be included in final documentation, document should be handed in prior to or on the day of demo.
- Source that can help with reflective writing:
  - <https://students.unimelb.edu.au/academic-skills/resources/reading,-writing-and-referencing/reflective-writing/reflective-writing>
  - <https://www.ed.ac.uk/reflection/reflectors-toolkit/producing-reflections/academic-reflections/general-tips>

## Meet in person:

- Get to know each other.
- Discuss work division, assign roles (group coordinator/ leader, determine group's internal work ethic).
  - Internal ethic includes: When, where, manner of work being done and what group considers a delinquency.
  - This should enable a group to identify when someone isn't contributing.

## Timeline:

- Setup timeline for work project.
- Setup time contingencies of 20% just-in-case something happens.

## Draft submissions:

### **Submission open on 8 April**

- Submit draft versions of reflections (each member)
- Timeframe
- Summary of work ethic (one summary for whole group)
- Group leader submits these files.

## **Group Task 2: Continuous Reporting**

### **Entire project timeline**

- Keep notes and attendance for every meeting and work session.
- Keep record of each member's assigned tasks and responsibilities.
  - Each task has a milestone date that is realistic and achievable.
- Group leader responsible for keeping track of when tasks are completed.
  - Completed task sheet should be included in final documentation.
- Use GitHub to manage project.

## **Group Task 3: Topological Network Design**

**(Recommended to complete by 19<sup>th</sup> April)**

- Complete design of network using Pocket Tracer, explained in pdf attached and uploaded.

## **Group Task 4: Text Messaging App Development**

**(Recommended to complete by 16 May)**

- Design and build small text messaging app, connects via Internet, includes following features:
  - Must run on Windows (10 or 11)
  - Useable and user-friendly GUI
  - Send and receive text messages.
  - Send individual and group messages.
  - Fully portable (nothing installed for app to function on Windows)
  - Connects via Internet, NOT LAN. (Demo won't have LAN available)

## **What to submit on eFundi**

1. Packet traces files, videos made for presentation.
2. Application files for messaging app
3. Documentation:
  - a. Group member's reflections on online courses.
  - b. Work ethic that group decided on.
  - c. Description of network designed in Packet Tracer
  - d. Budget for network
  - e. Discussion on issues encountered, such as group conflicts, scheduling problems, technical problems etc.
  - f. Project management documentation
  - g. Reflection on group's experience with project. (Refer to GROUP TASK 1 for guidance)
4. Presentation files
5. Anything else specified in either project guidelines, or assignment submission page on eFundi.



## Notes, considerations, and penalties

- ❖ No restrictions on development of app.
  - Can use any IDE's, program languages etc.
  - May not install anything on demo computer, no external libraries like runtimes, IDE's, language packs etc. Must be FULLY PORTABLE.
- ❖ Topological network design must be done in Packet Traces
- ❖ TRY TO KEEP IT SIMPLE
- ❖ Multiple group tasks can run parallel, only completion date is set.
- ❖ Submit all relevant media (documents etc) before due date, should be prior to demonstration.
- ❖ SUBMIT FULLY BEFORE PROJECT DUE DATE TO AVOID PENALTIES
- ❖ Submitting late will let you lose marks (calculations in pdf file 2)
- ❖ Must submit prior to demo, submission = demonstration
- ❖ Demonstrations will take place from 16<sup>th</sup> May. Exact dates will be communicated.
- ❖ Opportunity to adjust mark of each member will be presented after memo. (contribution mark in a sense, calculations in pdf 2)