

# CMPG 315: PROJECT SUMMARY

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## 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.
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- 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)

[Free Time Management Tutorial - A Mini Course on Time Management | Udemy](#)

[Free GitHub Tutorial - Git Started with GitHub | Udemy](#)

[Free Git Tutorial - Git: Become an Expert in Git & GitHub in 4 Hours | Udemy](#)

[Free Project Management Tutorial - Project and Project Management # | Udemy](#)

[Cisco Packet Tracer: Free Computer Networking Simulation Tool \(skillsforall.com\)](#)

## 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:
  - i. [Reflective writing \(unimelb.edu.au\)](http://unimelb.edu.au)
  - ii. [General tips for academic reflections | The University of Edinburgh](#)

## 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)