**CMP2204 Introduction to Computer Networks Term Project - Spring 2021**

**P2P File Sharing Application**

**REPORT**

**Project Team Members**

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**Introduction**

This project exemplifies the distribution and sharing of files using peer-to-peer(P2P) networking technology. User searches for online peers to download desired content.

This program has four main parts: announcement, discovery, uploader, and downloader.

Windows operating system is used to develop this project. All members worked together on this project the entire time to get top efficiency. We did our studies then gathered to share information. We arranged online meetings. In every meeting, one of the members shared their screen while writing the codes and others helped to search for solutions.

**Challenges**

The main challenge we faced was the unclarity of the “Functional Specification” document. We had hard time building details of this project.

Since we were inexperienced at both Python and socket programming, it was quite difficult for us to collect information. Despite the wide variety of resources, the contents we found were too complex and advanced for our level. Errors we got were complicated and solutions were not easy to grasp.

The specific contents of Phyton, like dictionaries, were too detailed for beginner-level Phyton users. We couldn’t use those elements comfortably. That’s why we second-guessed ourselves quite often during the project. Also, we weren’t familiar with the usage of the Hamachi environment however we managed to overcome this with research.