

CMP2204 Introduction to Computer Networks

Spring 2021, Term Project

Project Report

Task: A simple command line application for data sharing over local network.

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Platform we have used to develop our code: Windows 10

IDE we used to develop our code: Pycharm IDE

Faced challenges and limitations :

- To host more than one file from one host, chunk announcer must be run once for each file.
- If file host user deletes a chunk file it will not be recreated nor will the downloader be aware of it (the download will simply fail stating the deleted chunk could not be downloaded from any known sources)
- In Chunk Downloader, if there has been a problem downloading any of the chunks and program did not read any bytes, it still created a file of 0 kb. We fixed it by reading the bytes in if statement and if there isn't any bytes have been read we raised an IOError (lines 48-60)
- At the beginning our program used same port for both UDP processes so it caused one of the programs to shut down. We made Chunk Announcer and Chunk Downloader choose from the available ports to get around the problem.

Division of Workload

Kaan Sevenler	Melisa Çevik
Chunk Downloader	Chunk Announcement
Chunk Uploader	Content Discovery
Solutions for faced challenges	Read Me and Project Report