

# README

## Group Members:

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## Problem Statement:

To implement a P2P File sharing software similar to BitTorrent.

## Program Steps:

To run the project, prerequisite is the following:

- Login to the remote machine, copy the source coded, and compile the code: "javac PeerProcess.java".
- To run PeerProcces in the remote machines, we wrote a wrapper. So if we start the wrapper, all the processes will be started in the remote machines.
- To connect to the remote machines via our local machines, we need to first generate the keys.
  - Follow the below to generate the keys:
    1. Run "ssh-keygen" - it will prompt for file name and passphrase, please don't have a passphrase.
    2. Run "ssh-copy-id -i <your\_key> <username>@<remote\_machine>" - Copy the key to one of your remote machines.
- Login to all the remote machines using this key once before you start the wrapper using "ssh -i <your\_key> <username>@<remote\_machine>". This will avoid the fingerprint prompt message once you start the wrapper.
- Copy the Common.config file, PeerInfo.config file and the actual file to be transferred in the corresponding peer directories under the folder "project/".
- In the Ssh wrapper file, please change the username to yours, projPath to where you run the program and 'pubKey' to your generated rsaKey.
- To start the wrapper compile the Ssh.java program - "javac Ssh.java", and run the wrapper - "java Ssh".