

Caleb Underkoffler – [ciu3812@rit.edu](mailto:ciu3812@rit.edu)

Damon Gonzalez – [dbg3220@rit.edu](mailto:dbg3220@rit.edu)

## Initial Error Handling

```
PS C:\Users\2club\Projects\data_com\Project> python3 .\client.py
Provide a file directory to read from
PS C:\Users\2club\Projects\data_com\Project> █
```

```
PS C:\Users\2club\Projects\data_com\Project> python3 .\client.py random
'random' is NOT a valid directory
PS C:\Users\2club\Projects\data_com\Project> █
```

## Client Startup

```
PS C:\Users\2club\Projects\data_com\Project> python3 .\client.py files\client1
Socket running on port 50030
This is peer to peer file sharing system!!
Enter 'help' for a list of helpful commands
-> █
```

```
PS C:\Users\2club\Projects\data_com\Project> python3 .\client.py files\client1
Socket running on port 50030
This is peer to peer file sharing system!!
Enter 'help' for a list of helpful commands
-> help
help (Print this help message)
exit (Close this client)
discover (Run peer discovery)
peers (Show peers currently stored)
index (Show files from specific peer)
request (Request specific file from specific peer)
-> █
```

## Peer Discovery

```
-> discover
1: 50030
2: 50035
3: 50000
4: 50001
-> █
```

## File Indexing

```
-> index
Enter peer port to see files from: 50030
Files on peer 50030:
- images.jpg
- random.txt
- test.txt
-> 
```

## File Request

```
-> request
Enter peer port to request from: 50030
Enter file name to request: random.txt
Enter destination to save file to: files\client2
sent request
Listening on 127.0.0.1:50126
Connection from ('127.0.0.1', 51688)
File received in 1 chunks, hash: 13d831fe1d5ea22fdd96dbdc35b0650b327a502db230428b55dfa8f711af56f6
-> 
```

## (Optional: Stored Peers)

```
-> discover
1: 50026
2: 50000
3: 50035
4: 50030
-> peers
1: 50026
2: 50000
3: 50035
4: 50030
-> 
```