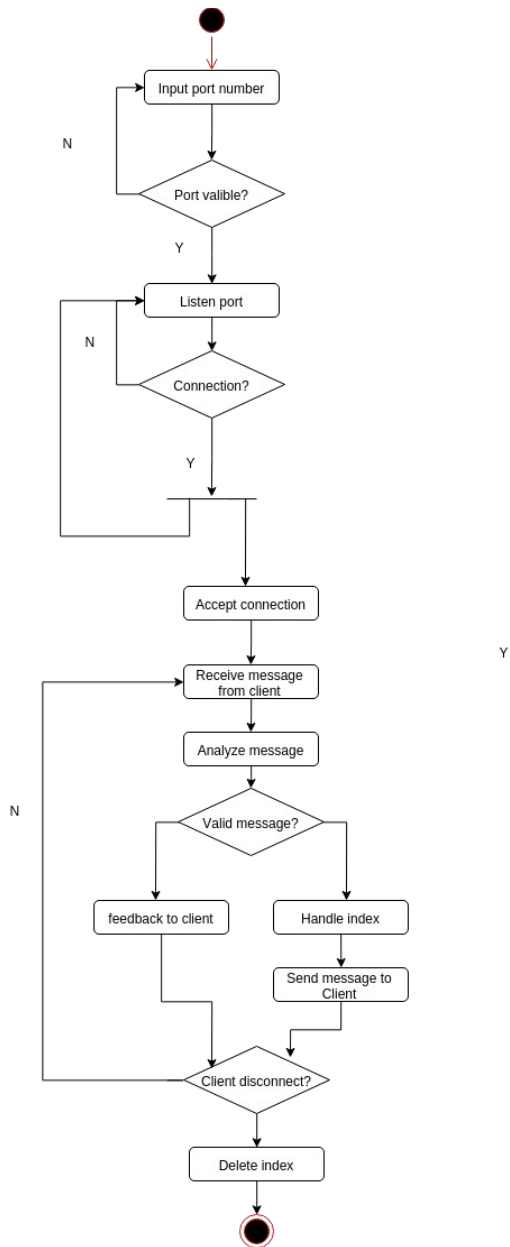


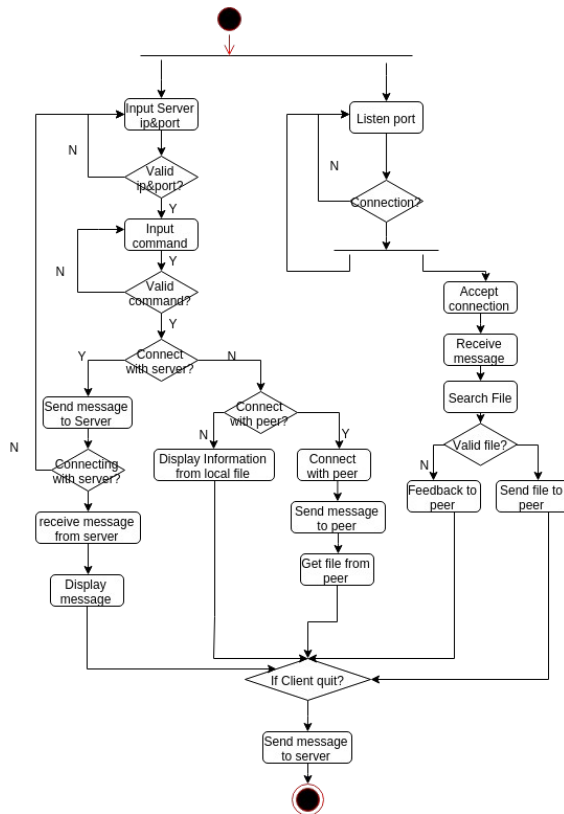
# Design Document

## System design

### Server design



## Client design



## Synopsis design

- Register file: “p2p -r [filepath]”
- Search file: “p2p -f [keyword]”
- Download file: “p2p -o [ip:port] [filepath]>[savepath]”
- Help Document: “p2p -h”
- Quit client: “p2p -q”

## Test synopsis

- 1000 Registration: “p2p -Rtest”
- 1000 Download: “p2p -Rdownload”

## Possible improvement

- Reduce file I/O operation

- Implement resilience that could be used in geographically different servers.
- Avoid message loss
- Increase registration and download speed