

1. Tracker Communication → plan to be done by Dec.5, status: completed
  - a. Done parsing and decoding the torrent file (Yuxin Chen. Jordan Johnson: yc\_jojo branch - 64123952)
  - b. Done sending the GET message to the tracker (Yuxin Chen. Jordan Johnson: yc\_jojo branch - 64123952)
  - c. Done receiving the response from the tracker with peer information (Yuxin Chen. Jordan Johnson: yc\_jojo branch - 64123952)
  - d. Done parsing the peers from the message (Yuxin Chen. Jordan Johnson: yc\_jojo branch - 64123952)
  - e. \*\*error handling not implemented yet
2. Peer-to-Peer communication → plan to be done by Dec.8, status: Work in Progress
  - a. Completed sending and receiving the handshake (Yuxin Chen. Jordan Johnson: yc\_jojo branch - 64123952)
  - b. Completed function for creating/receiving/parsing the messages (Yuxin Chen: yc\_jojo branch - 64123952)
  - c. Requesting and receiving data blocks from peer to download file (Zhuo Cheng Xie: zxie branch - e086d80d841456b88a345d4564834bcc498027ea)
  - d. Advertising current files to other peers (WIP: Zhuo Cheng Xie: zxie branch - e086d80d841456b88a345d4564834bcc498027ea)
3. File system component → Plan to be done by Dec. 5, status: Work in Progress
  - a. Store and keep track of all pieces received (Zhuo Cheng Xie: zxie branch - e086d80d841456b88a345d4564834bcc498027ea)
  - b. Write pieces to file once pieces are compared against hash (Zhuo Cheng Xie: zxie branch - e086d80d841456b88a345d4564834bcc498027ea)
4. Connection management → Plan to be done by Dec. 8, status:

- a. select() for peers (WIP: Jordan Johnson)

## 5. Interfaces

- a. tracker/peer to peer interface

- i. The list of peers are parsed from the response from the tracker communication (DONE: Yuxin Chen)
- ii. Use the list of peer to create connections (On progress: Jordan Johnson)

- b. Peer to peer/File System interface

- i. Using bitfield to check which piece is needed when communicating with peers (In progress: Zhuo Cheng Xie: zxie branch - e086d80d841456b88a345d4564834bcc498027ea)

- c. Peer to peer/connection management interface

- i. Keeps track of peers that are choked and unchoked in order to know which peers to communicate with (WIP: Nathan Nguyen)
- ii. Adding and removing connections between peers and our client (WIP: Nathan Nguyen)