

BitTorrentPy

Members:

1. Robert Nash
2. Mike O'Brien
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Supported Features:

1. Downloads a file sometimes
2. A light UI
- 3.

Design and Implementation:

The client is written in Python 3.7.

Most of the implementation uses separate classes for all of the different components. We chose to use a handler class for dealing with peers and a handler class to keep track of pieces.

Threads are used to run different tasks from the client.

Problems

This certainly was a learning experience. Working as a group at work was difficult with varying schedules and communication was poor. We addressed these by implementing deconfliction protocols and utilizing Zoom for communications.

Programming wise, there were a lot of issues in dealing with imports and getting the file to properly import local modules.

We also had to do a complete redesign midway through because the way we were writing it before just wasn't working. We weren't fully taking advantage of OOP and it was a mess.

We had a lot of difficulty with the last piece.

Known Bugs

- Still struggling with last piece on some files
- Still need to seed

Contributions

- Robert Nash
 - Structure of code
 - Message Class
 - Report
- Mike O'Brien
 - Overall code handling
 - Requests
 - Debugging
 - Tracker Class
 - Piece Class
- Spencer Michalski
 - Peer Class
 - Downloading
 - Refactoring, Debugging
 - Unit Tests
- Martin Iglesia
 - Downloading
 - Piece Class
 - Debugging