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CST238

Term Project Requirements/Specifications for BGA

Requirements:

Hardware:

* The application must run on most standard desktop/laptop processors and use little memory.
* The application must allow users to use a keyboard and mouse for filename entry and navigating around the application.

Software:

* The application must respond to the user within 20 seconds.
* The application must run on Windows.
* The application must come with an installer executable.

UI:

* The application shall allow the user to add or remove torrent files to workload.
* The application shall allow the user to view completed torrents in a separate window.
* The application shall allow the user the freedom of choosing between basic and advanced mode views.
* The application shall allow the user to pause/resume torrent downloads.
* The application shall allow the user to exit the application at any time (displaying a confirmation window upon doing so each time).
* The application shall display important torrent information such as: download speed, upload speed, a progress bar, connection strength, and torrent size.
* The application shall use a custom icon next to its name in the top left corner of the window.

Help Documentation:

* The application shall have an option for user to choose that will bring up the help window with instructions on how to use or navigate the application.

Deployment methodology:

The application will be deployed via an installer which should work on a desktop or notebook running a Windows OS.

Action/Response use-case table:

|  |  |
| --- | --- |
| User Action | System Response |
| User clicks “Add torrent” | System opens file path window, requesting file of the right extension |
| User clicks the help button | System opens the help window with operating instructions |
| User clicks Advanced/basic mode button | System switches between modes as appropriate displaying the necessary information |
| User clicks the Exit button | System will display the exit confirmation window and close the application if OK is pressed |
| User clicks “Remove torrent” | System will either confirm or not the removal depending on the operating mode user is in (basic mode always confirms for exit/removal) |
| User clicks “Pause All” | System will pause all torrent downloads |
| User clicks “Resume All” | System will resume all torrent downloads |

Research/Materials Needed:

Research other BitTorrent client applications (uTorrent, qBittorrent, Vuze, etc.) to learn how GUI and controls look and operate.

Milestones:

* Term Project Proposal (Week 2) – Check
* Term Project Requirements (Week 3) – Check
* Peer evaluations #1 and feedback of GUI design – In-progress
* Status Report #1 – To do

UI Rough Draft:

