Test Cases

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| **Case IDs** | **Test Case Description** | **Expected Result** | **Actual Result** | **Status** |
| 1. | **Peers registering to the Super Peer**   1. a. Enter the port number on which the peer should run. 2. b. Enter the directory path for files to be contained in the specified peer. 3. c. Enter the ID for the peer. 4. d. Enter the Super Peer port number 5. e. Enter the super peer ID | The peer with the specified details should be registered on the Super Peer. | Super peer registers and displays all the peers that are registered to it. | Pass |
| 2. | **Searching for a file in the Server**  a. Enter the file name which needs to be searched from the Super Peer. | The IDs of the peers that contain the specified file should be  displayed. | List of all peers that contain the specified files are displayed.(TTL) | Pass |
| 3. | **Locating the peer having the searched file, connecting to it and downloading it.**  a. Enter the peer ID you want current peer to connect in order to download the searched file. | The file should be downloaded from the specified peer to the current peer and display a message once the download is complete. | The file is transferred from the connected peer as specified by the user to the current peer and a message is displayed once the download is  complete. | Pass |
| 4. | **De-Registering the file from the server.**   1. Whenever the file is deleted from the directory. | Message should be displayed that the file is affected(Deleted) and immediately de-register the availability of the file in the name of peer from the server. | The affected file name is displayed, and it is immediately removed from the Indexing server for that peer. | Pass |
| 5. | Calculating the Time taken when multiple clients are concurrently making request to server to get the list of peers having the file and then download the file from the same  peer. | The Time taken to search and download a file from the peer(Acting as Server) when two, three and peers are running, and time is simultaneously displayed. | Displays the time taken to download a file from the peer(acting as server) when two,three and four peer clients are trying to search and download  concurrently and time is simultaneously displayed. | Pass |