Sr No	Description	Expected Results	Actual Results	Status
1	Super Peer Initialization via property file	Super peer should ask its Peer id and all details are fetched from property files	Super peer fetches all details from property file using assigned Super Peer Id	Pass
2	Leaf Node Initialization via property file	Leaf Node should ask its Peer id and all details should be fetched from property files	Leaf Node fetches all details from property file using assigned Leaf Node Id	Pass
3	Registeration of Peers at Indexing Server Peer registerying port number, directory path containing the files, the Peer id and its super peer id	Leaf Node should get registered in Indexing server(Super Peer).	Leaf Node's Indexing Server/Super Peer registers all the provided details in Index.	Pass
4	Leaf Node entering random text when prompted Search,Delete or Exit input	It should throw an message for selecting a proper input	Message is being displayed when wrong input given "Please select appropriate choice"	Pass
5	When searching a file or sending a query request to a super peer (In case of Query Hit)	Super Peer should return a list of its Leaf nodes along with neighbouring super peer's leaf nodes having that specified file.	Super Peer calls Leaf node Query hit() and returns the details of its own leaf nodes and also leaf nodes details of other super peers	Pass
6	When searching a file or sending a query request to a super peer (In case of query miss)	If no super peers have the specified file, they should return nothing and does not call QueryHit()	After Searching, super peer doesn't do any thing.	Pass
7	In All to All Topology, requesting Super Peer forwarding query()	In All-to-All topology, requesting Super Peer should forward query() to all super peers	Super Peer fetches all its neighbouring details from property file and forwards query() to all super peers. It also make sure that neighbouring super peer will not broadcast query() again in loop.	Pass
8	In linear Topology, requesting Super Peer forwarding query()	In linear topology, requesting Super Peer should forward query() to only one neighbouring super peer	Super Peer forwards the query request only to one super peer. It also make sure the request super peer wont get the query() from other super peer(loop)	Pass
9	Entering wrong name from the Leaf Node list having the requested file	It should return an error message for not selecting proper leaf node id	An error message is displayed where it asks user to re-enter the searching choice.	Pass

10	After downloading a file, updating the index server/Super peer	Leaf node should automatically update its super peer index about new downloaded file	Leaf Node does an entry at its super peer and updates the Index.	Pass
11	For Deletion, Leaf node didn't enter the file name or enter wrong file name which is not present in that Leaf node	It should return an error message	An Error message is being thrown saying "Sorry, File which you are searching doesn't exist in our Server"	Pass
12	If Leaf Node 3 is selecting Leaf node 5 for downloading the requested file and at the same time Leaf node 5 is deleting the file	Error message should be shown.	An message is thrown saying "File is not present in remote location"	Pass
13	Leaf Node deleting a file from its directory	Leaf Node should automatically update the index server about the deletion	Leaf Node initiates an request to its super peer to remove the file entry from the Index	Pass
14	Editing only master copy	Leaf node should be allowed to alter or edit their master copies only, not cached copy	Only the files present in master directory of each leaf node are getting edited	Pass
15	If a leaf node is getting invalidated and during that process some other leaf node downloads the cached copy from that leaf node	Leaf node should get an error for selecting invalid copy	It throws an error in this scenario as "The Peer which you had selected just got its files invalidated. Please select master copy"	Pass
16	In Push approach, Master copy node will edit a particular file	Master copy node should inform and invalidated all the other leaf nodes ASAP	All leaf nodes having cached copy of that file getting invalidated	Pass
17	If leaf node doesn't not have cached copy and receives invalid hit	Leaf node with no cached copy should ignore the invalidate message	All leaf nodes which doesn't have cached copy of that file, do nothing on invalidate hit	Pass
18	Polling in Pull 1 and 2 approach (Leaf node and Super Peer)	Leaf Node and Super Peer should wait for specified time period (TTR)	On every Poll request, Leaf node and Super Peer wait for TTR period	Pass
19	Invalidation process in leaf node and super peer	On every invalidation, no matter which approach is selected (push or pull), Super Peer's Registry Index should be updated	Leaf node updates its super peer's registry index on every invalidation hit	Pass
20	Searching a file	Only List of valid copies should appear	The leaf node which is searching only gets the list of valid copies along with master copy	Pass
21	One Leaf node crashes down abruptly and another Leaf node wants to download the file from that Leaf node	An Exception should occur while downloading the file	A Java Connection Refuse exception occurred. " Connection refused to host: "	Pass