# Design Doc

We have used the Java Sockets to implement GNutella type network. We have kept the TTL to 7 by default which will decrement when it hops from one hop to another .

## Configuration file-

We have kept list of neighbors in a separate like ***portNumberconfig.file***

Below configuration for linear & star topology, where ip is the ip address of neighbor.

## Linear Topology

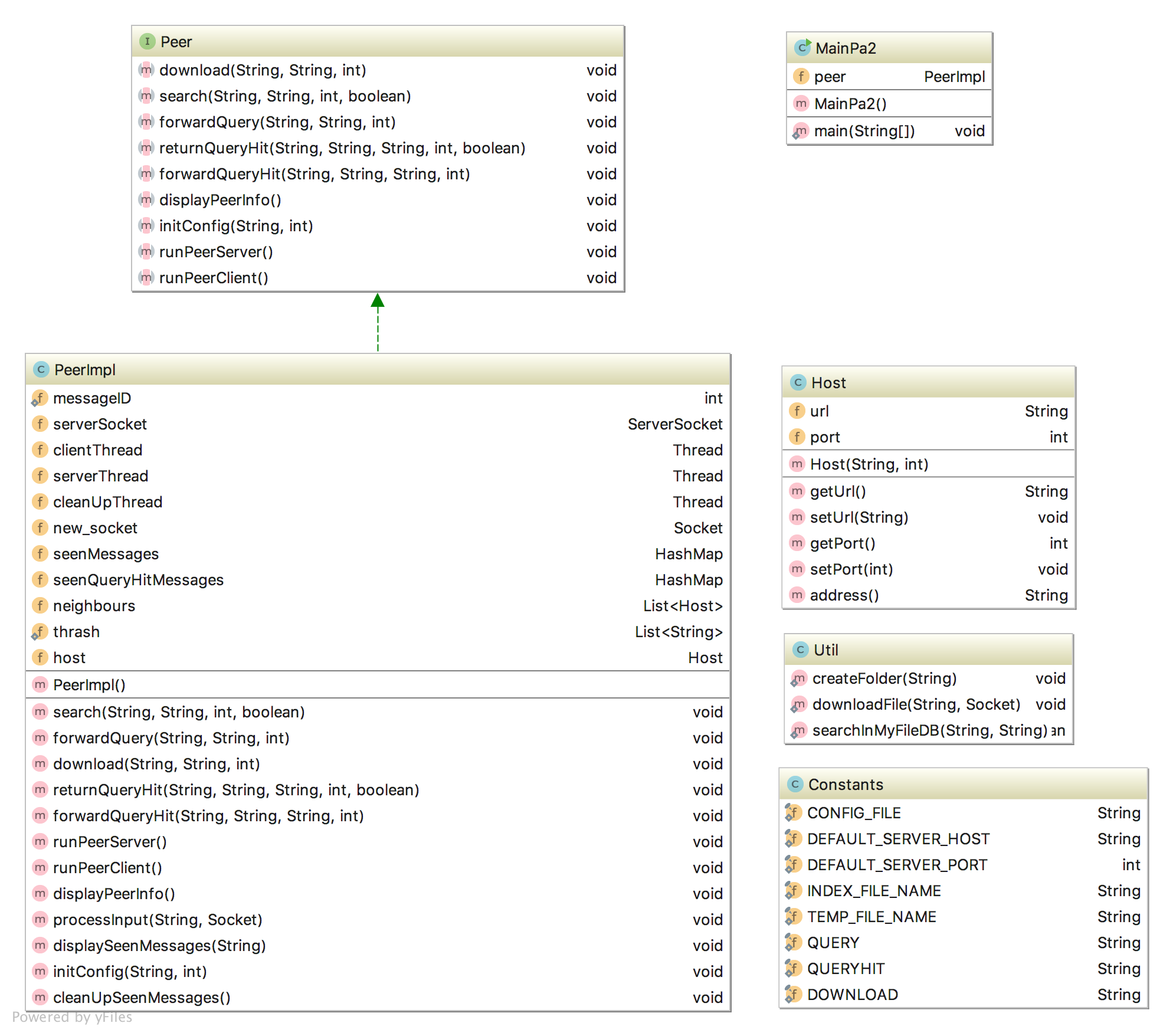
|  |  |
| --- | --- |
|  | File Contents:  **1config.file**  ip:2  **2config.file**  ip:1  ip:3  **3config.file**  ip:2  ip:4  **4config.file**  ip:3 |

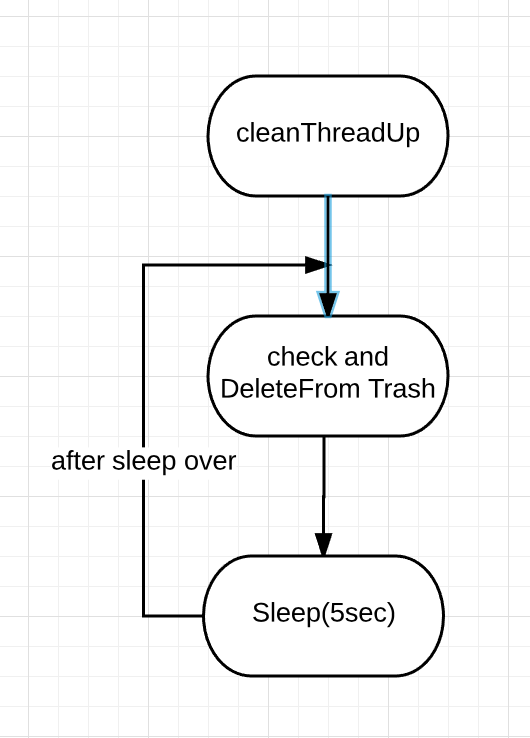
## Star Topology

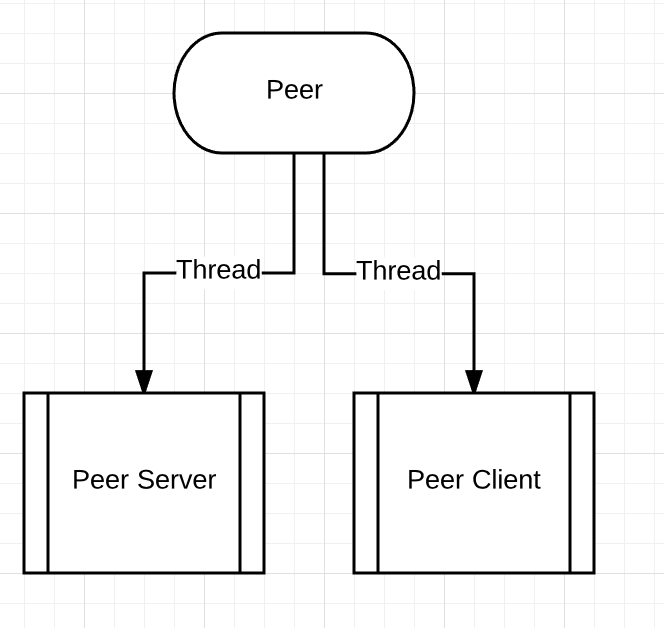
Peer Configuration File for star topology

|  |  |
| --- | --- |
|  | File Contents:  **1config.file**  ip:4  ip:3  ip:2  ip:5  **2config.file**  ip:1  **3config.file**  ip:1  **4config.file**  ip:1  **5config.file**  ip:1 |

# Class Diagram :







Manual text

Steps to run our program :  
  
1. Place the shared shell script "run.sh" , shared jar file and corresponding configuration file in a seperate folder for each peer.  
 For example :  
 if I want to create a peers running on port 52001, I will create a folders(any name) and place "run.sh" , jar file and its config file "52001config.file" in it.  
2. Run the shell script (./run.sh)  
3. Default config? Y/N, Say N  
4. Enter ipaddress of the system where peer is running (if it this system itself, enter "localhost")  
5. Enter port where this peer has to run.. (I will say 52001 if I have placed 52001config.file)  
6. later select options accordingly  
7. If you download any files it will be stored in "sharedFolder(ip:port)". in my case "sharedFolderlocalhost:52001"  
8. Any file shared by this peer should also be stored in this folder.. this folder will be created on peer's bootup

Example tree structure -

