USER MANUAL

This document describes how to go about using this client/server program:

1. Untar the directory Project “Prog1\_Kataria\_Nikhita.tar”.
2. Goto Prog1\_Kataria\_Nikhita/src.
3. Run make
4. After step 2, there would be following binaries/object files generated:

server, peer, peer\_2, peer\_utils.o

**server** : The indexing server

**peer** : This peer will sending a lookup request to peer\_2.

**peer\_2**: This peer will registering its files the server and will start as a server to serve the files to peer.

**peer\_utils.o** : Utilities used by peer and peer\_2. This is the file defining “obtain” , “lookup“ and “register” functions.

1. Start the server  
   *./server <ip> <port>*

NIKATARI-M-X1R5: nikatari$ **./server 127.0.0.1 7891**   
Received message from client register:127.0.0.1:9001:sample\_file.txt1 sample\_file.txt2

Spawning a thread for register request

New peer registered 4

Registring file sample\_file.txt1

Registring file sample\_file.txt2

Registered peer 127.0.0.1:9001

Received message from client lookup:sample\_file.txt

Spawning a thread for search request

File name is sample\_file.txt Length 15

Checking peer 127.0.0.1:9001

Number of bytes written 29

1. Start the peer *2  
   ./peer <server\_ip> <server\_port> <file\_list>*

**NIKATARI-M-X1R5:Project\_Final nikatari$ ./peer\_2 127.0.0.1 7891 sample\_file.txt**

data port 7891

Connecting to the server

Sending Registration Request

register:127.0.0.1:9001:sample\_file.txt1 sample\_file.txt2 Registered file Registered files 127.0.0.1:9001\_file.txt2 Received request for file sample\_file.txt

Sending bytes 1024

Sending bytes 1024

Sending bytes 1024

Sending bytes 1024

Sending bytes 1024

Sending bytes 1024

Sending bytes 1024

Sending bytes 1024

Sending bytes 492

End of file

1. Start peer

*./peer <file> <server\_ip> <server\_port>*

**NIKATARI-M-X1R5:Project\_Final nikatari$ ./peer sample\_file.txt 127.0.0.1 7891**

Sending Lookup Request lookup:sample\_file.txt

Following peers have the file

127.0.0.1:9001

127.0.0.1:9001Bytes received 1024

Bytes received 1024

Bytes received 1024

Bytes received 1024

Bytes received 1024

Bytes received 1024

Bytes received 1024

Bytes received 1024

Bytes received 492