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Semester:5

Batch:2

Course: CS6111- Computer Networks

Lab - Experiment 8 – Implementation of FTP Server

CODE:

CLIENT:

import java.io.\*;

import java.net.\*;

@SuppressWarnings("deprecation")

class FTPC

{

public static void main(String[] args) throws Exception

{

String option;

DataInputStream in=new DataInputStream(System.in);

Socket s=new Socket("localhost",Integer.parseInt(args[0]));

System.out.println("MENU");

System.out.println("1.SEND");

System.out.println("2.RECEIVE");

FTPC ftp=new FTPC();

while(true)

{

option=in.readLine();

if(option.equals("1")){

System.out.println("SEND Command Received..");

ftp.sendfile(s);

}

else if(option.equals("2")){

System.out.println("RECEIVE Command Received..");

ftp.receivefile(s);

}

}

}

public void sendfile(Socket s) throws Exception

{

Socket ssock=s;

DataInputStream in=new DataInputStream(System.in);

DataInputStream cin=new DataInputStream(ssock.getInputStream());

DataOutputStream cout=new DataOutputStream(ssock.getOutputStream());

cout.writeUTF("RECEIVE");

String filename=in.readLine();

System.out.println("Reading File "+filename);

cout.writeUTF(filename);

File f=new File(filename);

FileInputStream fin=new FileInputStream(f);

int ch;

do

{

ch=fin.read();

cout.writeUTF(String.valueOf(ch));

}while(ch!=-1);

fin.close();

System.out.println("File Sent");

}

public void receivefile(Socket s) throws Exception

{

Socket ssock=s;

DataInputStream in=new DataInputStream(System.in);

DataInputStream cin=new DataInputStream(ssock.getInputStream());

DataOutputStream cout=new DataOutputStream(ssock.getOutputStream());

cout.writeUTF("SEND");

String filename=in.readLine();

cout.writeUTF(filename);

System.out.println("Receiving File "+filename);

File f=new File(filename);

FileOutputStream fout=new FileOutputStream(f);

int ch;

do

{

ch=Integer.parseInt(cin.readUTF());

if(ch!=-1) fout.write(ch);

}while(ch!=-1);

System.out.println("Received File...");

fout.close();

}

}

SERVER:

import java.io.\*;

import java.net.\*;

class FTPS

{

public static void main(String[] args) throws Exception

{

ServerSocket Sock=new ServerSocket(Integer.parseInt(args[0]));

Socket s=Sock.accept();

DataInputStream cin=new DataInputStream(s.getInputStream());

DataOutputStream cout=new DataOutputStream(s.getOutputStream());

FTPS ftp=new FTPS();

while(true)

{

String option=cin.readUTF();

if(option.equals("SEND")){

System.out.println("SEND Command Received..");

ftp.sendfile(s);

}

else if(option.equals("RECEIVE")){

System.out.println("RECEIVE Command Received..");

ftp.receivefile(s);

}

}

}

public void sendfile(Socket s) throws Exception

{

Socket ssock=s;

DataInputStream cin=new DataInputStream(ssock.getInputStream());

DataOutputStream cout=new DataOutputStream(ssock.getOutputStream());

String filename=cin.readUTF();

System.out.println("Reading File "+filename);

File f=new File(filename);

FileInputStream fin=new FileInputStream(f);

int ch;

do

{

ch=fin.read();

cout.writeUTF(Integer.toString(ch));

}while(ch!=-1);

fin.close();

System.out.println("File Sent");

}

public void receivefile(Socket s) throws Exception

{

Socket ssock=s;

DataInputStream cin=new DataInputStream(ssock.getInputStream());

DataOutputStream cout=new DataOutputStream(ssock.getOutputStream());

String filename=cin.readUTF();

System.out.println("Receiving File "+filename);

File f=new File(filename);

FileOutputStream fout=new FileOutputStream(f);

int ch;

while((ch=Integer.parseInt(cin.readUTF()))!=-1)

{

fout.write(ch);

}

System.out.println("Received File...");

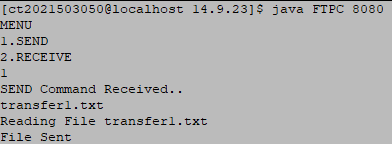
fout.close();

}

}

OUTPUT:

CLIENT:



SERVER:

