**Laborator 10.**

Clientul ii transmite serverului un nume de director si primeste de la acesta lista tuturor fisierelor text din directorul respectiv, respectiv un mesaj de eroare daca directorul respectiv nu exista.

#include <sys/types.h>

#include <stdio.h>

#include <unistd.h>

#include <stdlib.h>

#include <string.h>

#include <wait.h>

#include <dirent.h>

#include <sys/wait.h>

#include <sys/types.h>

#include <sys/stat.h>

int main()

{

int pipe1[2],pipe2[2];

int pid;

char sir[20];

char sir2[100];

if(pipe(pipe1)<0)

{

printf("eroare la crearea pipe\n");

exit(1);

}

if(pipe(pipe2)<0)

{

printf("eroare la crearea pipe\n");

exit(1);

}

if((pid=fork())<0)

{

printf("eroare la fork\n");

exit(1);

}

if(pid==0)

{//Suntem in procesul fiu==serverul

close(pipe2[1]);

read(pipe2[0],sir,20);

printf("SERVERUL:\nAm primit de la client numele de director:%s\n",sir);

char \*cmd=(char \*)malloc(sizeof(char)\*30);

strcpy(cmd,"./dir.sh ");

strcat(cmd,sir);

close(pipe2[0]);

close(pipe1[0]);

FILE\* f=popen(cmd,"r");

char sir3[100];

int c,i=0;

do{

c=fgetc(f);

if(c=='\n'){

sir3[i]=',';

i++;

}

else{

sir3[i]=c;

i++;

}

}while(c!=EOF);

sir3[i-2]='\0';

pclose(f);

write(pipe1[1],sir3,100);

close(pipe1[1]);

exit(0);

}

else{

//suntem in procesul parinte==clientul

printf("CLIENTUL:\nDati un nume de director:");

scanf("%s",sir);

close(pipe2[0]);

write(pipe2[1],sir,(strlen(sir)+1));

close(pipe2[1]);

close(pipe1[1]);

read(pipe1[0],sir2,100);

printf("CLIENTUL:\nRaspunsul primit este: %s\n",sir2);

close(pipe1[0]);

}

return 0;

}

dir.sh

file $1|grep -q "No such file or directory"

if [ $? -eq 0 ];then

echo "Directorul nu exista!"

else

for fis in `find $1 -type f`

do

file $fis|grep -q "ASCII text"

if [ $? -eq 0 ];then

b=`echo $fis|sed 's/.\*\///'`

echo $b

fi

done

fi