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Source Code:File Manager

package com.locked;

import java.io.File;

import java.io.FileWriter;

import java.util.ArrayList;

import java.util.List;

public class FileManager

{

/\*\*

\* this method all the files name from the folder

\* @param folderpath

\* @return list of string

\*/

public static List<String> getAllFiles(String folderpath)

{

//creating file object

File fl=new File(folderpath);

//Getting all the files into FileArray

File[] listofFiles = fl.listFiles();

//Declare a List to Store files names

List<String> fileNames=new ArrayList<String>();

for(File f:listofFiles)

fileNames.add(f.getName());

//return the list

return fileNames;

}

/\*\*

\* tThis method will create or append content into the file specified

\* @param folderpath

\* @param fileName

\* @param content

\* @return boolean

\*/

public static boolean writeContentToFile(String folderpath,String fileName,List<String> content)

{

try

{

File fl = new File(folderpath, fileName);

FileWriter fw = new FileWriter(fl);

for (String s:content)

{

fw.write(s+"\n");

}

fw.close();

return true;

}catch(Exception Ex)

{

return false;

}

}

/\*\*

\* This method delete the file if it exists

\* @param folderpath

\* @param fileName

\* @return

\*/

public static boolean deleteFile(String folderpath, String fileName)

{

File file=new File(folderpath+"\\"+fileName);

try

{

if(file.delete())

return true;

else

return false;

}catch(Exception Ex)

{

return false ;

}

}

/\*\*

\* This method will search the file from the folder

\* @param folderpath

\* @param fileName

\* @return

\*/

public static boolean searchFile(String folderpath, String fileName)

{

File file=new File(folderpath+"\\"+fileName);

if(file.exists())

return true;

else

return false;

}

}

Virtual locker:

package com.locked;

import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

public class VirtualLocked

{

static final String folderpath="D:\\My phase1 Project\\Lockedfiles";

public static void main(String[] args)

{

int proceed=1;

do

{

//variable declaration

Scanner obj= new Scanner(System.in);

int ch;

//Menu

displayMenu();

System.out.println("Enter the choice:");

ch=Integer.parseInt(obj.nextLine());

switch(ch)

{

case 1 : getAllFiles();

break;

case 2 : createFiles();

break;

case 3 : deleteFiles();

break;

case 4: searchFiles();

break;

case 5: System.exit(0);

break;

default : System.out.println("Invalid option");

break;

}

}while(proceed>0);

}

public static void displayMenu()

{

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\tCompany Lockers pvt ltd");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("1.Display all files");

System.out.println("2.Add files");

System.out.println("3.Delete files");

System.out.println("4.Search files");

System.out.println("5.Exit");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

/\*\*

\* Method for all files

\*/

public static void getAllFiles()

{

List<String> fileNames=FileManager.getAllFiles(folderpath);

for(String f:fileNames)

System.out.println(f);

}

/\*\*

\* Method for creating files

\*/

public static void createFiles()

{

Scanner obj = new Scanner(System.in);

String fileNames;

int linesCount;

List<String> content = new ArrayList<String>();

//Read file name user

System.out.println("Enter the File Name");

fileNames=obj.nextLine();

//read no. of line from the user

System.out.println("Enter how many lines in the files");

linesCount=Integer.parseInt(obj.nextLine());

//read no. of line from the user

for(int i=1;i<=linesCount;i++)

{

System.out.println("Enter the line "+i+":");

content.add(obj.nextLine());

}

//save the content into the file

boolean isSaved = FileManager.writeContentToFile(folderpath, fileNames, content);

if(isSaved)

System.out.println("File and data save successfully");

else

System.out.println("Some error occurred Please contact @admin");

//close obj

//obj.close();

/\*\*

\*Method For deleting files

\*/

}

public static void deleteFiles()

{

String fileName;

Scanner obj=new Scanner(System.in);

System.out.println("Enter file name to be deleted");

fileName=obj.nextLine();

boolean isDeleted = FileManager.deleteFile(folderpath, fileName);

if(isDeleted)

System.out.println("File deleted Succussfully");

else

System.out.println("Either file not there or some access issue");

// obj.close();

}

/\*\*

\* Method for searching files

\*/

public static void searchFiles()

{

String fileName;

Scanner obj=new Scanner(System.in);

System.out.println("Enter file name to be Search:");

fileName=obj.nextLine();

boolean isFound = FileManager.searchFile(folderpath, fileName);

if(isFound)

System.out.println("File is present in the Folder");

else

System.out.println("File is not present in the folder");

//obj.close();

}

}