**FileRunner**

package fileStorageSystem;

import java.io.File;

import java.io.IOException;

import java.nio.file.FileAlreadyExistsException;

import java.nio.file.Path;

import java.nio.file.Paths;

import java.util.Scanner;

import java.util.scanner;

public class FileRunner {

public class FileHandling extends FileHandeling {

}

public static void makeDirectory() throws IOException {

Path path = Paths.get("D://java phaase 1/");

Files.createDirectory(path);

}

public static void main(String[] args) throws IOException {

// TODO Auto-generated method stub

FileRunner.makeDirectory();

FileHandeling fh = new FileHandling();

System.out.println("--------------------------------------------------------");

System.out.println("Company Lockers Pvt. Ltd. developed by Partho Amit Acharya");

System.out.println("File handling application");

int choice=0;

do{

System.out.println("Press 1 to retrieving the file names in an ascending order ");

System.out.println("Press 2 to perform CRUD operations on files");

System.out.println("Press 3 to close the application ");

Scanner sc = new Scanner(System.in);

try{

choice = sc.nextInt();

}catch(Exception ex){

System.out.println("Wrong input choice");

//break;

}

switch(choice){

case 1:

try {

String files[] = fh.getFilesinAscending();

for(String file:files){

System.out.println(file);

}

}catch(FileAlreadyExistsException fe) {

System.out.println(fe.getMessage());

}

System.out.println();

break;

case 2:

int ch=0;

do{

System.out.println("Press 1 to add your file in directory");

System.out.println("Press 2 to delete a file");

System.out.println("Press 3 to search a file");

System.out.println("Press 4 to read a file");

System.out.println("Press 5 to write data in a file");

System.out.println("Press 6 to return to main menu");

System.out.println();

try{

ch = sc.nextInt();

}

catch(Exception ex){

System.out.println("Wrong input choice");

break;

}

switch(ch){

case 1:

System.out.println("Enter name of file to add");

String fileName = sc.next();

fh.createFile(fileName);

break;

case 2:

System.out.println("Enter name of file to delete");

String fileName1 = sc.next();

try{

fh.deleteFile(fileName1);

}catch(FileException ex){

System.out.println(ex.getMessage());

}

break;

case 3:

System.out.println("Enter name of file to search");

String fileName2 = sc.next();

try{

fh.searchFile(fileName2);

}catch(FileException ex){

System.out.println(ex.getMessage());

}

break;

case 4:

System.out.println("Enter name of file to read");

String fileName3 = sc.next();

try {

fh.readFile(fileName3);

System.out.println("End of file data\n");

} catch (IOException e) {

System.out.println(e.getMessage());

}

break;

case 5:

System.out.println("Enter name of file name to write data");

String fileName4 = sc.next();

fh.updateFile(fileName4);

break;

case 6:

break;

default:

System.out.println("Please use proper choice.\n");

}

}while(ch!=6);

break;

case 3:

System.out.println("Aplication closed.");

break;

default:

System.out.println("Please enter right choice.");

}

}while(choice!=3);

}

}

**FileHandling**

package fileStorageSystem;

import java.io.BufferedOutputStream;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileOutputStream;

import java.io.FileWriter;

import java.io.IOException;

import java.io.InputStream;

import java.io.OutputStream;

import java.util.Scanner;

public class filehandling {

public boolean createFile(String fileName){

File file = new File("D://java phaase 1/"+fileName);

try {

file.createNewFile();

System.out.println("Your file has been created successfully at location :"+file.getAbsolutePath()+".\n");

return true;

} catch (IOException e) {

// TODO Auto-generated catch block

System.out.println(e.getMessage());

return false;

}

//return true;

}

public boolean deleteFile(String fileName) throws FileException{

File file = new File("D://java phaase 1/"+fileName);

if(file.exists()){

String filePath = file.getAbsolutePath();

file.delete();

System.out.println("Your file has been deleted successfully from location :"+filePath+".\n");

}else{

throw new FileException("File not found");

}

return true;

}

public void searchFile(String fileName) throws FileException{

File file = new File("D://java phaase 1/"+fileName);

if(file.exists()){

System.out.println("Your file is found at location :"+file.getAbsolutePath()+"\n");

}else{

throw new FileException("File with this name does not exists");

}

}

public boolean updateFile(String fileName) throws IOException{

//FileWriter fos = new FileWriter("D://java phaase 1/"+fileName);

File file = new File("D://java phaase 1/"+fileName);

System.out.println("Write the data you want to insert in file and type enter if you are finished");

FileOutputStream out = new FileOutputStream(file);

Scanner sc =new Scanner(System.in);

String str = sc.nextLine();

char arr[] = str.toCharArray();

int i=0;

while(i<arr.length){

out.write(arr[i]);

out.flush();

i++;

}

out.close();

System.out.println("Your data has been stored in file successfully.\n");

return true;

}

public String[] getFilesinAscending() throws FileException {

File file = new File("D://java phaase 1/");

String allFiles[] = file.list();

if(allFiles==null || allFiles.length==0)

throw new FileException("No files available to fetch");

for(int i=0;i<allFiles.length-1;i++){

for(int j=0;j<allFiles.length-1-i;j++){

if(allFiles[j].compareToIgnoreCase(allFiles[j+1])>0){

String temp = allFiles[j+1];

allFiles[j+1] =allFiles[j];

allFiles[j]=temp;

}

}

}

return allFiles;

}

public void readFile(String fileName) throws IOException{

FileInputStream fis =new FileInputStream("D://java phaase 1/"+fileName);

int i=0;

while((i=fis.read())!=-1){

System.out.print((char)i);

}

System.out.println();

}

}

**FileException**

package fileStorageSystem;

public class FileException extends Exception {

public static void main(String args[]){

}

/\*\*

\*

\*/

private static final long serialVersionUID = 1L;

public FileException(String message){

super(message);

}

}