| SOURCE CODE |
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**PROJECT CODE:**

**Folder Structure :**

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**FileManager.java**

package com.lockedme;

import java.io.File;

import java.io.FileWriter;

import java.util.ArrayList;

import java.util.List;

public class FileManager

{

/\*\*

\* This method will return the files names from the folder

\* @param folderpath

\* @return List<String>

\*/

public static List<String> getAllFiles(String folderpath)

{

// Creating File object

File folder = new File(folderpath);

// Getting all the Files into FileArray

File[] listOfFiles = folder.listFiles();

// Declaring a List to store file names

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

for(File f:listOfFiles)

fileNames.add(f.getName());

// return the List

return fileNames;

}

/\*\*

\* This method will create or append content to the specified file

\* @param folderpath

\* @param fileName

\* @param content

\* @return boolean

\*/

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

{

try

{

File folder = new File(folderpath, fileName);

FileWriter fw = new FileWriter(folder);

for(String s : content)

{

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

}

fw.close();

return true;

}

catch(Exception Ex)

{

return false;

}

}

/\*\*

\* This method will delete the file name if it exists

\* @param folderpath

\* @param fileName

\* @return boolean

\*/

public static boolean deleteFiles(String folderpath, String fileName)

{

// Adding folder path with file name and creating file object

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 name if it exists

\* @param folderpath

\* @param fileName

\* @return boolean

\*/

public static boolean searchFiles(String folderpath, String fileName)

{

// Adding folder path with file name and creating file object

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

if(file.exists())

return true;

else

return false;

}

}

**LockedMeDotCom.java**

package com.lockedme;

import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

public class LockedMeDotCom

{

static final String folderpath = "D:\\Phase1FinalProject\\LockedMeProjectFiles";

public static void main(String[] args)

{

int proceed = 1;

do

{

// Variable declaration

int ch;

// Menu

ch = displayMenu();

switch(ch)

{

case 1 : getAllFiles();

break;

case 2 : addFiles();

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 int displayMenu()

{

Scanner obj = new Scanner(System.in);

int ch;

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

System.out.println("\t Company Lockers Pvt. Ltd.");

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

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

System.out.println("2. Add a new file");

System.out.println("3. Delete a file");

System.out.println("4. Search a file");

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

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

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

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

return ch;

}

public static void getAllFiles()

{

// code for getting file names

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

if(fileNames.size()==0)

System.out.println("No files in the directory");

else

{

System.out.println("File list is below:");

for(String f : fileNames)

System.out.println(f);

}

}

public static void addFiles()

{

// code for add files

// Variable Declaration

Scanner obj = new Scanner(System.in);

String fileName;

int linesCount;

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

// Read File Name from user

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

fileName = obj.nextLine();

// Read number of lines from user

System.out.println("Enter number of lines in the file:");

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

// Read lines from user

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

{

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

content.add(obj.nextLine());

}

// Save the content into the file

boolean isSaved = FileManager.addFiles(folderpath, fileName, content);

if(isSaved)

System.out.println("File and data saved sucessfully");

else

System.out.println("Some error occured. Please contact admin@abc.com");

}

public static void deleteFiles()

{

// Code for deleting a file

String fileName;

Scanner obj = new Scanner(System.in);

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

fileName = obj.nextLine();

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

if(isDeleted)

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

else

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

}

public static void searchFiles()

{

// Code for searching a file

String fileName;

Scanner obj = new Scanner(System.in);

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

fileName = obj.nextLine();

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

if(isFound)

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

else

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

}

}