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| Purpose | Application Source Code |
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**Lockedme.com**

**Application Source Code**

package phase1Project;

import java.util.Scanner;

import java.io.File;

import java.io.FileWriter;

import java.util.ArrayList;

import java.util.Arrays;

import java.util.Collections;

import java.util.List;

public class PrototypeV1 {

public static void main(String[] args) {

// We Start the prototype calling the landing page and from there we take the users input for what he wants to do

landingPage();

}

// The Methods to be used in the prototype

/\*\*

\* this method will show the landing page and ask the user to choose from the landing page

\*/

static void landingPage() {

// Printing the Prototype Landing Page and asking the user for an input

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

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

System.out.println();

System.out.println();

System.out.println();

System.out.println(" lockedme.com");

System.out.println();

System.out.println();

System.out.println(" Please choose from the options below");

System.out.println(" 1-To view the files");

System.out.println(" 2-To Control the files");

System.out.println(" 3-To Close the application");

System.out.println();

System.out.println();

System.out.println(" Devolped by : Lockers Pvt. Ltd.");

System.out.println();

System.out.println();

System.out.println();

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

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

// Identifying the variable to be used in choosing the option and reading input from user

Scanner obj = new Scanner(System.in);

int mainch = Integer.parseInt(obj.nextLine());

// switch case to choose from the landing page

switch (mainch) {

// case 1 will print out all of the files in the folderpath

case 1:

viewFiles();

return;

// case 2 will show you the control files menu to choose form

case 2:

controlFiles();

return;

// case 3 will exit the prototype

case 3:

System.exit(0);

return;

// if the input is invalid the system will show the below message

default:

System.out.println("Please Enter a Valid Number");

landingPage();

}

}

/\*\*

\* this method prints out the control files menu and asks the user to choose what item he wants to do

\*/

static void controlFiles () {

// printing out the control files menu and asking the user for an input

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

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

System.out.println();

System.out.println();

System.out.println();

System.out.println(" Lockers Pvt. Ltd.");

System.out.println();

System.out.println();

System.out.println(" Please choose from the options below");

System.out.println(" 1-To Add a New File");

System.out.println(" 2-To Delete an exiciting file");

System.out.println(" 3-To Search for a File");

System.out.println(" 4-to get back to the main menu");

System.out.println();

System.out.println();

System.out.println(" Devolped by : Abdulaziz AlHadlag");

System.out.println();

System.out.println();

System.out.println();

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

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

// Reading input from user

Scanner obj = new Scanner(System.in);

int contch = Integer.parseInt(obj.nextLine());

// switch case to control the files

switch (contch) {

// case 1 will let the user add file

case 1 :

// variable decleration

String fn;

int linescount;

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

String folderpath ="C:\\Users\\hadlagak\\Desktop\\Test";

// read file name from the user

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

fn=obj.nextLine();

//read number of lines from user

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

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

// read content from the 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 = addFile(folderpath, fn, content);

if (isSaved) {

System.out.println("file and data is saved");

controlFiles();

}

else {

System.out.println("some error occured");

controlFiles();

}

return;

// case 2 will let the user delete a file

case 2:

// variable decleration and assigning the folderpath

String filename;

folderpath ="C:\\Users\\hadlagak\\Desktop\\Test";

// ask the user to enter file name

System.out.println("enter filename to be deleted");

filename=obj.nextLine();

// to check if the file exict in the folder it will delete it

boolean isDeleted = deleteFile(folderpath, filename);

if(isDeleted) {

System.out.println("File is Deleted");

controlFiles();

}

else {

System.out.println("Either file is not deleted or does not exict");

controlFiles();

}

return;

// case 3 allows the user to search for a file

case 3:

// assign the folder path

folderpath ="C:\\Users\\hadlagak\\Desktop\\Test";

// ask the user to enter the file name

System.out.println("enter filename to be searched for");

filename=obj.nextLine();

boolean isFound = searchFile(folderpath, filename);

if(isFound) {

System.out.println("File is present");

controlFiles();

}

else {

System.out.println("Either file is not present");

controlFiles();

}

return;

// returning to the landing page

case 4:

landingPage();

return;

default :

System.out.println("Please Enter a Valid Number");

controlFiles();

}

}

/\*\*

\* This method print out the file in the assigned path in ascending order

\*/

static void viewFiles() {

// Declaring the files path

File fileDir = new File("C:\\Users\\hadlagak\\Desktop\\Test");

// seraching the files and sorting them in ascending order

if(fileDir.isDirectory()){

// declare a list to store file names

List<String> listFile = Arrays.asList(fileDir.list());

Collections.sort(listFile);

// printing out the results

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

System.out.println("Here Are Your Files");

for(String s:listFile){

System.out.println(s);}}

else{

System.out.println(fileDir.getAbsolutePath() + " is not a directory");

}

//return the user to the landing page after showing the results

System.out.println();

System.out.println();

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

System.out.println();

System.out.println();

landingPage();

}

/\*\*

\* this method allows the user to add new file

\*/

static boolean addFile (String folderpath, String fn, List<String> content) {

try {

// creating new file

File fl = new File (folderpath, fn);

FileWriter fw = new FileWriter(fl);

// creating the content in the file

for (String s:content)

{

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

}

fw.close();

return true;

}

catch(Exception Ex) {

return false;

}

}

/\*\*

\* this method allows the user to delete an exiting file

\*/

static boolean deleteFile (String folderpath, String filename) {

// to look for the file needed

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

try {

// to delete the file if exict

if (file.delete())

return true;

else

return false;

}

catch (Exception Ex) {

return false;

}

}

/\*\*

\* this method allows the user to search for an exiting file

\*/

static boolean searchFile (String folderpath, String filename) {

// to search for the file

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

if (file.exists())

return true;

else

return false;

}

}