**LockedMe.java**

package com;

import java.io.File;

import java.util.Arrays;

import java.util.Scanner;

public class LockedMe {

private static Scanner sc = new Scanner(System.in);

public static Scanner getSc() {

return sc;

}

public static void welcomeScreen() {

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

System.out.println("Press 2 to perform file operations");

System.out.println("Press 3 to exit");

System.out.println("");

}

public static void main(String[] args) {

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

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

System.out.println("\*\*\*\*\*\*\*\*\*by George Prah\*\*\*\*\*\*\*");

System.out.println("\*\*\*george.prah@vodafone.com\*\*\*");

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

File[] fileList;

int choice = 0; //assigning local variable 0

while (choice != 3) { //loop while user selection is not option 3 to exit

welcomeScreen();

System.out.print("Please select 1 - 3: ");

try {

choice = sc.nextInt();

switch (choice) {

case 1:

System.out.println("");

System.out.println("Listing "+System.getProperty("user.dir")+" content in ascending order!");

System.out.println("");

fileList = new File(System.getProperty("user.dir")).listFiles();

Arrays.sort(fileList); //implements legacy merge sort

for (File f : fileList) {

System.out.println(f.getName());

}

System.out.println("");

System.out.println("File listing completed successfully");

System.out.println("");

break;

case 2:

FileOperations.fileOperationsPrompt();

break;

case 3:

System.out.println("Exiting!");

break;

default:

System.out.println("");

System.out.println("");

System.out.println("Invalid option selected!...");

System.out.println("");

System.out.println("");

}

} catch (Exception e) {

System.out.println("Please make sure to choose a number between 1 to 3");

getSc().next();

}

}

}

}

**FileOperations.java**

package com;

import java.io.File;

import java.io.IOException;

import java.util.ArrayList;

import java.util.InputMismatchException;

public class FileOperations {

public static void fileOperationsPrompt() {

int fileOperationChoice = 0; //initialized local variable to 0

while (fileOperationChoice != 4) {

System.out.println("");

System.out.println("Press 1 to add a file");

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

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

System.out.println("Press 4 to go back to main context");

System.out.print("Please select 1 - 4: ");

try {

fileOperationChoice = LockedMe.getSc().nextInt();

String filename;

File myObj;

switch (fileOperationChoice) {

case 1:

System.out.print("Enter the file name: ");

filename = LockedMe.getSc().next();

try {

myObj = new File(filename);

if (myObj.createNewFile()) {

System.out.println("");

System.out.println("File '" + myObj.getName()+"' created.");

System.out.println("");

} else {

System.out.println("");

System.out.println("File '"+myObj.getName()+"' already exists.");

System.out.println("");

}

} catch (SecurityException e) {

System.out.println("");

System.out.println("File cannot be created in current directory.");

System.out.println("Please consult techncal support!.");

System.out.println("");

} catch (IOException e) {

System.out.println("");

System.out.println("File creation failed.");

System.out.println("Please consult techncal support!.");

System.out.println("");

}

break;

case 2:

System.out.print("Enter the file name: ");

filename = LockedMe.getSc().next();

try {

myObj = new File(filename);

if (myObj.isFile()) {

if (myObj.delete())

System.out.println(filename + " deleted..... ");

else

System.out.println(filename + " not deleted..... ");

} else {

System.out.println("File is not a regular file or may not exit");

}

} catch (SecurityException e) {

System.out.println("File cannot be deleted from current directory.");

System.out.println("Please consult techncal support!.");

}

break;

case 3:

System.out.println("Searching file");

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

filename = LockedMe.getSc().next();

myObj = new File(filename);

File[] fileList = new File(System.getProperty("user.dir")).listFiles();

ArrayList<String> foundList = new ArrayList<String>();

for (File fn : fileList) { //implementing linear search

if (fn.getName().equalsIgnoreCase(filename))

foundList.add(fn.getName());

}

if (foundList.size() == 0) {

System.out.println("No such file found!");

} else {

System.out.println("Files found:");

for (String f : foundList) {

System.out.println(f);

}

}

break;

case 4:

System.out.println("");

break;

default:

System.out.println("");

System.out.println("");

System.out.println("Invalid option selected!...");

System.out.println("");

System.out.println("");

break;

}

}catch (InputMismatchException e) {

System.out.println("");

System.out.print("Please enter valid input from 1 - 4: ");

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

LockedMe.getSc().next();

}

}

}

}