package com.simplilearn.phase1.project;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileOutputStream;

import java.io.FileReader;

import java.io.FileWriter;

import java.io.IOException;

import java.util.ArrayList;

import java.util.Collections;

import java.util.Scanner;

import java.util.regex.Matcher;

import java.util.regex.Pattern;

public class LockersPvtLtd\_Project {

Scanner scanner = new Scanner(System.in);

String fileName;

String path = "D:\\LockersPvtLtd\\File\\";

//creating a single parameterized constructor to check the folder path is exists or not.

LockersPvtLtd\_Project(boolean b) throws IOException

{

//Checking Folder Exist or not. If not exists folder will be created.

File file = new File(path);

if(file.mkdirs())

{

System.out.println("New Folder is created in the path\n" +path);

}

else {

System.out.println("Folder already exists\n");

}

}

//These are the features methods(Retrieve files,Business level operations,Close the app).

//To Retrieve all files in ascending order

public void displayFile() throws IOException

{

File file = new File(path);

File filenames[]=file.listFiles();

for(File ff:filenames) {

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

}

selectBusinessOperation();

}

//These are the Business level operation methods(add,delete and search files)

//To add a user specified file to the application

public void addFile() throws IOException

{

System.out.println("Please enter the File name to Create\n");

fileName = scanner.next();

File fi = new File(path+fileName);

boolean b=fi.createNewFile();

if(b!=true)

{

System.out.println("Filename already found \n");

}

else

{

System.out.println("Filename Added Successfully\n");

}

//To insert or append the content into the file created.

System.out.println("Would you like to add some content in the newly created file or\n append some content in already existing file ?\nPress(Y/N)\n");

String choice=scanner.next().toLowerCase();

if(choice.equals("y")) {

FileWriter fos = new FileWriter(fi,true);

String s= scanner.next()+scanner.nextLine();

fos.write(s);

System.out.println("Content written to file\n" +fileName);

fos.close();

}

selectBusinessOperation();

}

//To delete a user specified file from the application

public void deleteFile() throws IOException

{

System.out.println("Please enter the File name to Delete\n");

fileName = scanner.next();

File fi = new File(path+fileName);

boolean b=fi.delete();

if(b==true)

{

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

}

else

{

System.out.println("File not exists to delete");

}

selectBusinessOperation();

}

//To search a user specified file from the application

public void searchFile() throws IOException

{

System.out.println("Please enter the File name to Search\n");

fileName = scanner.next();

File file = new File(path);

File filenames[]=file.listFiles();

int flag=0;

for(File ff : filenames)

{

if(ff.getName().equals(fileName))

{

flag=1;

break;

}

else {

flag=0;

}

}

if(flag==1)

{

System.out.println(fileName +" File Found!! in this path \n " +path);

}

else

{

System.out.println("File Not Found");

}

selectBusinessOperation();

}

//To Close the Application

public void closeApplication() throws IOException

{

System.out.println("Closed the Application");

System.exit(0);

}

//This is the Business Level Operations Method

public void selectBusinessOperation() throws IOException

{

System.out.println("Enter 2.1 option to add a user specified file to the application");

System.out.println("Enter 2.2 option to delete a user specified file from the application");

System.out.println("Enter 2.3 option to search a user specified file from the application");

System.out.println("Enter 2.4 option to close the current execution context and return to the main context");

String option = scanner.next();

switch (option) {

case "2.1":

addFile();

break;

case "2.2":

deleteFile();

break;

case "2.3":

searchFile();

break;

case "2.4":

System.out.println("Returning to main context");

features();

break;

default:

System.out.println("Select the Correct Option");

break;

}

selectBusinessOperation();

}

//This is Generic features and 3 operations ----> main method

public void features() throws IOException

{

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

System.out.println("Enter 2 to select Business-level operations");

System.out.println("Enter 3 to Close the application");

String operation = scanner.next();

switch (operation) {

case "1":

displayFile();

break;

case "2":

selectBusinessOperation();

break;

case "3":

closeApplication();

break;

default:

System.out.println("Select the Correct Operation");

break;

}

features();

}

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

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

System.out.println("Welcome too Lockers Pvt Ltd \n"+"This application is developed by Santhi Mogili\n");

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

System.out.println();

//calling the class to get features of app

LockersPvtLtd\_Project lockersPvtLtd = new LockersPvtLtd\_Project(true);

lockersPvtLtd.features();

}

}