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//Source code of LOCKED.IN
package com.mypackage.project1;

import java.util.*;
import java.io.File;
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.Paths;

public class FileManageMentSystem {

	public static void main(String[] args) throws IOException {
	System.out.println("WELCOME TO VIRTUAL KEY FOR YOUR REPOSITORIES");
	Scanner scanner = new Scanner(System.in);
	int choice = 0;
	System.out.println("Application Name:LOCKED.IN");
	System.out.println("Developer Name:Aman Garg");
	System.out.println("Directory Path : D:\\\\project1phase1Directory ");
	final String location = "D:\\project1phase1Directory";
	do {
		System.out.println("File Menu");
		System.out.println("-------------------------");
		System.out.println("1)List Filenames In Ascending Order");
		System.out.println("2)User Interaction Options");
		System.out.println("3)EXIT");
		System.out.println("-------------------------");
		System.out.print("Enter your choice: ");
		try {
			choice = Integer.parseInt(scanner.nextLine());
		}
		catch(NumberFormatException e) {
			System.out.println("Only number Allowed");
			continue;
	}
		System.out.println("-------------------------");
		switch(choice) {
		case 1:
			System.out.println("File And Directory List In Ascending
Order");
			System.out.println();
			try {
			File file = new File(location);
		File filedirec [] = file.listFiles();
		Arrays.sort(filedirec);
		for(File e : filedirec) {
			if (e.isFile()) {
				System.out.println("File:" + e.getName());
				System.out.println();
			}
			else if (e.isDirectory()) {
				System.out.println("Directory:" + e.getName());
				System.out.println();
			}
			else {
				System.out.println("Not Known:" + e.getName());
				System.out.println();
			}
		}
			}
			catch(Exception e) {
				System.err.println("Directory Path must be present to do
this operation :");
				System.err.println("Directory Path : D:\\\\
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project1phase1Directory ");
                  }
                  break;
            case 2:
                  int subchoice = 0;
                  do {
                  System.out.println();
                  System.out.println("User Interaction Options:");
                  System.out.println("-------------------------");
                  System.out.println("1)Add File");
                  System.out.println("2)Delete File");
                  System.out.println("3)Search FIle");
                  System.out.println("4)Main Menu");
                  System.out.println("-------------------------");
                  System.out.print("Enter your choice: ");

                  try {
                        subchoice = Integer.parseInt(scanner.nextLine());
                  } catch (NumberFormatException e) {
                        System.out.println("only numbers allowed");
                        continue;
                  }

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

                  switch(subchoice) {

                  case 1:
                        System.out.print("Enter the file Name to be add : ");
                        String fileName = scanner.nextLine().toLowerCase();
                        try {
                        Path path = Paths.get("D:\\
project1phase1Directory\\"+fileName+".txt");
                        if(Files.exists(path)) {
                              System.out.println("Already this File name
exists");
                        }
                        else {
                              Path pathdone = Files.createFile(path);
                              System.out.println("File is created :" +
pathdone.toString());
                        }

                        }
                        catch(Exception e) {
                              e.printStackTrace();
                              continue;
                        }
                        break;

                  case 2:
                        System.out.print("Enter the file Name to be deleted :
");
                        String fileName2 = scanner.nextLine();
                        try {
                        Path path = Paths.get("D:\\
project1phase1Directory\\"+fileName2+".txt");
                        if(Files.exists(path)) {
                                Files.delete(path);
                                System.out.println("File Deleted Successfully");
                        }
                        else {
                              System.out.println("File Not Available");
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                        }

                        }
                        catch(Exception e) {
                              e.printStackTrace();
                              continue;
                        }
                        break;
                  case 3:
                        boolean flag = false;
                        System.out.print("Enter the filename to be search :  ");
                        String fileName3  = scanner.nextLine().toLowerCase();
                        File file = new File(location);
                        File filedirec[] = file.listFiles();
                        for(int i=0; i<filedirec.length; i++) {
                              if(filedirec[i].getName().startsWith(fileName3)) {
                                    System.out.println(filedirec[i].toString());
                                    flag = true;
                              }
                        }
                        if(flag==false) {
                              System.out.println("File not Found");
                        }
                        break;
                  case 4:
                        System.out.println("Returning To The Main Menu");
                        break;

                  default:
                        System.out.println("Invaid Option : Try Again");
            }
                  }while(subchoice!=4);

            case 3:
                  System.out.println("Thank You For Using App");
                  break;
            default:
                  System.out.println("Invalid Option : Try Again");
            }
      }while(choice!=3);
      scanner.close();
      }


}
```