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package com.lockedme;

import java.io.File;
import java.io.FileWriter;
import java.util.LinkedList;
import java.util.Scanner;

public class LockedMeMainApp {

    static final String errorMessage = "Some error occurred. Please contact the
admininstration.";
    static final String projectFilePath = "C:\\Users\\gk\\Desktop\\LockedMeApp\\1-File Path\\";
    public static void main(String[] args)
    {
        int in = 1;
        Scanner sc = new Scanner(System.in);
        do
        {
            try
            {
                displayMenu();
                System.out.println("Slect One Option");
                in=Integer.parseInt(sc.nextLine());
                switch(in)
                {
                    case 1 : getAllFiles();
                    break;
                    case 2 : createFiles();
                    break;
                    case 3 : deleteFiles();
                    break;
                    case 4 : searchFiles();
                    break;
                    case 5 : System.exit(0);
                    break;
                    default: System.out.println("Invalid Option, Try Again");
                    break;
                }
            }
            catch (NumberFormatException Ex)
            {
                System.out.println("Please enter Numbers only");
            }
        }
        while(in > 0);
        sc.close();
    }
    public static void displayMenu()
    {
        System.out.println("*****");
        System.out.println("\t\tWelcome To LockedMe.Com Application");
        System.out.println("*****");
        System.out.println("");
    }

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        System.out.println("\t\t1. Display all existing files");
        System.out.println("\t\t2. Create a new file");
        System.out.println("\t\t3. Delete an existing file");
        System.out.println("\t\t4. Search an existing file");
        System.out.println("\t\t5. Exit");

        System.out.println("*****");
    );
        System.out.println("\t\tDeveloped by :- Harsh Jadhav");

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

public static void getAllFiles()
{
    try
    {
        File folder = new File(projectFilePath);
        File[] listOfFiles = folder.listFiles();

        if(listOfFiles.length > 0)
        {
            for(var l:listOfFiles)
            {
                System.out.println(l.getName());
            }
        }
        else
        {
            System.out.println("No Files Exist In The Directory");
        }
    }
    catch(Exception Ex)
    {
        System.out.println("ErrorMessage in getAllFiles"+Ex.getMessage());
    }
}

public static void createFiles()
{
    Scanner sc = new Scanner(System.in);
    try {

        String fileName;
        System.out.println("Enter file name");
        fileName = sc.nextLine();

        FileWriter myWriter = new FileWriter(projectFilePath + fileName + ".txt");

        System.out.println("Write Content to store in file");
        String line = sc.nextLine();
        myWriter.write(line + "\n");

        myWriter.close();
        System.out.println(fileName + ".txt" + " " +"Created Successfully");

    } catch (Exception Ex) {
        System.out.println("errorMessage in createFiles ==> " + Ex.getStackTrace());
    }
}

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    }  
}  
  
public static void deleteFiles()  
{  
  
    Scanner sc = new Scanner(System.in);  
    try {  
        String fileName;  
  
        System.out.println("Enter the final name to be deleted: ");  
        fileName = sc.nextLine();  
        File file = new File(projectFilePath + fileName + ".txt");  
  
        if (file.exists()) {  
            file.delete();  
            System.out.println("File deleted successfully: " + fileName+ ".txt");  
        } else  
            System.out.println("File do not exist");  
  
    } catch (Exception Ex) {  
        System.out.println(errorMessage);  
    }  
}  
  
public static void searchFiles()  
{  
    Scanner sc= new Scanner(System.in);  
  
    try  
    {  
        String fileName;  
  
        System.out.println("Enter the final name to be searched: ");  
  
        fileName=sc.nextLine();  
  
        File folder = new File(projectFilePath);  
        File[] listofFiles = folder.listFiles();  
  
        LinkedList<String> filenames = new LinkedList<String>();  
  
        for(var l:listofFiles)  
            filenames.add(l.getName());  
  
        if(filenames.contains (fileName+ ".txt"))  
            System.out.println("File is available");  
  
        else  
            System.out.println("File is not available");  
    }  
    catch(Exception Ex)  
    {  
        System.out.println(errorMessage);  
    }  
}  
}
```