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package com.company;

import org.apache.commons.io.FileUtils;

import java.io.*;
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.Scanner;

public class CLI {

    private static final String FILEFOLDER = "files/";

    void options() {
        boolean exit = false;
        do {
            System.out.println("Which operation you would like to do?");
            System.out.println("(1) Retrieve files");
            System.out.println("(2) Add a file");
            System.out.println("(3) Delete a file");
            System.out.println("(4) Search for a file");
            System.out.println("(5) View a file");
            System.out.println("(6) Quit");

            Scanner keyboard = new Scanner(System.in);
            System.out.println("Enter an Integer");
            int option = keyboard.nextInt();

            switch (option) {
                case 1:
                    retrieve();
                    break;
                case 2:
                    addfiles();
                    break;
                case 3:
                    deleteFile();
                    break;
                case 4:
                    search();
                    break;
                case 5:
                    view();
                    break;
                case 6:
                    exit = true;
                    break;
                default:
                    System.out.println("No valid option given");
            }
        } while (exit == false);
    }

    void retrieve(){
        File folder = new File(FILEFOLDER);
        List<String> strList = new ArrayList<>();

        for (final File fileEntry : folder.listFiles()) {
            String fileEntryName = fileEntry.getName();

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        strList.add(fileEntryName);
    }
    Collections.sort(strList);

    for(String str: strList){
        System.out.println(str);
    }
}

void addfiles(){
    Scanner keyboard = new Scanner(System.in);
    System.out.println("Name path and file you want to add to the app:");
    String fileName = keyboard.nextLine();
    File sourceFile = new File(fileName);
    if (sourceFile.exists()){
        fileName = sourceFile.getName();
        File fileFolder = new File(FILEFOLDER + fileName);
        try {
            FileUtils.copyFile(sourceFile, fileFolder);
            System.out.println("File copied");
        } catch (IOException e) {
            System.out.println("Error copying file: " + e);
            e.printStackTrace();
        }
    } else {
        System.out.println("File " + fileName + " doesn't exist");
    }
}

void deleteFile(){
    Scanner keyboard = new Scanner(System.in);
    System.out.println("Name file which you want to delete:");
    String fileName = keyboard.nextLine();
    File file = new File(FILEFOLDER + fileName);

    if(file.exists()){
        try {
            FileUtils.delete(file);
            System.out.println("File deleted");
        } catch (IOException e) {
            System.out.println("Error delete the file: " + e);
            e.printStackTrace();
        }
    } else {
        System.out.println("File " + fileName + " doesn't exist");
    }
}

void search(){
    Scanner keyboard = new Scanner(System.in);
    System.out.println("Name file which search:");
    String fileName = keyboard.nextLine();
    File file = new File(FILEFOLDER + fileName);

    if(file.exists()){
        System.out.println("File " + fileName + " exists");
    } else {
        System.out.println("File " + fileName + " doesn't exist");
    }
}

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void view(){
    Scanner keyboard = new Scanner(System.in);
    System.out.println("Name file which you want to view:");
    String fileName = keyboard.nextLine();
    File file = new File(FILEFOLDER + fileName);

    if(file.exists()){
        BufferedReader reader;
        try{
            reader = new BufferedReader(new FileReader(file));
            String line =reader.readLine();
            while(line != null){
                System.out.println(line);
                line = reader.readLine();
            }
            reader.close();
        }catch(FileNotFoundException ex){
            System.out.println("File not found " + ex);
        }catch (IOException ex) {
            System.out.println("IOException: " + ex);
        }
    }else{
        System.out.println("File doesn't exist");
    }
}
```