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package com.locked.me;
import java.io.File;
import java.io.IOException;
import java.util.Arrays;
import java.util.Scanner;


public class BudgetApproval {static String DIRECTORY;
File folder_name;

public  BudgetApproval() {
   DIRECTORY = System.getProperty("user.dir");
   folder_name = new File(DIRECTORY+"/files");
   if (!folder_name.exists())
      folder_name.mkdirs();
   System.out.println("DIRECTORY : "+ folder_name.getAbsolutePath());
}

private static final String WELCOME_PROMPT =
      "welcome to Lockers Pvt Ltd\n"+"Developer Name-I.Pavan";
         private static final String MAIN_MENU_PROMPT =
      "\nMAIN MENU - Select options 1or2or3: \n"+
            "1 - List of the files in directory\n"+
            "2 - Business level operations\n"+
            "3 - Close the Application ";

private static final String SECONDARY_MENU_PROMPT =
      "   \nSelect options a or b or c or d: \n"+
            "   A - Add  file\n"+
            "   B - Delete  file\n"+
            "   C - Search  file\n"+
            "   D - Go Back to menu";

void showPrimaryMenu() {
   System.out.println(MAIN_MENU_PROMPT);
   try(Scanner scanner = new Scanner(System.in)){

    int option = scanner.nextInt();
      switch (option){
         case 1 : {
            showFiles();
            showPrimaryMenu();
         }
         case 2 : {
            showSecondaryMenu();
         }
         case 3 : {
            System.out.println("Thank You");
            System.exit(0);
         }
         default: showPrimaryMenu();
      }
   }
   catch (Exception e){
      System.out.println("Please enter 1, 2 or 3");
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        showPrimaryMenu();
    }
}

void showSecondaryMenu() {
    System.out.println(SECONDARY_MENU_PROMPT);
    try(Scanner scanner = new Scanner(System.in))
    {
        char[] input = scanner.nextLine().toLowerCase().trim().toCharArray();
        char option = input[0];

        switch (option){
            case 'a' : {
                System.out.print("â†³ Adding a file...Please Enter a File Name : ");
                String filename = scanner.next().trim().toLowerCase();
                addFile(filename);
                break;
            }
            case 'b' : {
                System.out.print("â†³ Deleting a file...Please Enter a File Name : ");
                String filename = scanner.next().trim();
                deleteFile(filename);
                break;
            }
            case 'c' : {
                System.out.print("â†³ Searching a file...Please Enter a File Name : ");
                String filename = scanner.next().trim();
                searchFile(filename);
                break;
            }
            case 'd' : {
                System.out.println("Going Back to MAIN menu");
                showPrimaryMenu();
                break;
            }
            default : System.out.println("Please enter a, b, c
or d");
        }
        showSecondaryMenu();
    }
    catch (Exception e){
        System.out.println("Please enter a, b, c or d");
        showSecondaryMenu();
    }
}

void showFiles() {
    if (folder_name.list().length==0)
        System.out.println("The folder is empty");
    else {
        String[] list = folder_name.list();
        System.out.println("The files in "+ folder_name +" are :");
        Arrays.sort(list);
        for (String str:list) {  System.out.println(str);
        }
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    }
}

void addFile(String filename) throws IOException {
    File filepath = new File(folder_name +"/"+filename);
    String[] list = folder_name.list();
    for (String file: list) {
        if (filename.equalsIgnoreCase(file)) {
            System.out.println("File " + filename + " already exists at " + folder_name);
            return;
        }
    }
    filepath.createNewFile();
    System.out.println("File "+filename+" added to "+ folder_name);
}

void deleteFile(String filename) {
    File filepath = new File(folder_name +"/"+filename);
    String[] list = folder_name.list();
    for (String file: list) {
        if (filename.equals(file) && filepath.delete()) {
            System.out.println("File " + filename + " deleted from " + folder_name);
            return;
        }
    }
    System.out.println("Delete Operation failed. FILE NOT FOUND");
}

void searchFile(String filename) {
    String[] list = folder_name.list();
    for (String file: list) {
        if (filename.equals(file)) {
            System.out.println("FOUND : File " + filename + " exists at " + folder_name);
            return;
        }
    }
    System.out.println("File NOT found (FNF)");
}

public static void main(String[] args) {
    System.out.println(WELCOME_PROMPT);
    BudgetApproval menu = new  BudgetApproval();
    menu.showPrimaryMenu();
}
}
```