PROJECT PROPOSAL (DRAFT)
Project P.A.S.S. (Presence and Attendance Smart System)

Team 6: Attendance   8 - Dahlia

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Problem Statement

Project P.A.S.S. aims to solve inconsistencies with attendance tracking in schools; inconsistencies such as unrecorded absences or mistakenly labelled types of absences. It does so with a more refined and organized version of the task. This program gives the teachers an easier time with tracking student attendance.

Project Objectives

Project P.A.S.S. aims to:
1. Develop a system that records and analyzes student attendance data;
2. Create automated features that calculate attendance insights;
3. And design a user-friendly interface that allows users to easily input, retrieve, and display attendance information.

Planned Features

Our program is able to display or do the following:
1. On average, how many students are present per day? (Starter idea);
2. Which date had the lowest attendance overall? (Starter idea);
3. Find the total number of unexcused and excused absences per student. (Own idea);
4. Count how many times a student was tardy (excused or unexcused). (Own idea);
5. Display if excused or unexcused based on attendance status and reason for said status (Own idea).

Planned inputs and Outputs

Inputs
- The user shall input the following:
    - Student information (name or ID number)

- Date
- Attendance status (any of the following)
  - Present
  - Excused Absence
  - Unexcused Absence
  - Tardy

Outputs
- The resulting output of the program should be one of the following:
  - If you were tardy, be it excused or unexcused
  - If you were absent, be it excused or unexcused
  - If you were on time

Logic Plan

START

    PRINT "Please input your student ID."
    INPUT student_ID

    PRINT "Please input your name."
    INPUT name

    PRINT "Please input the date."
    INPUT date

    PRINT "Please input status: 1. Tardy, 2. Absent, 3. Present."
    INPUT status

    If status = 1 THEN
        PRINT "1. I came to school earlier than 7:40 am"
        PRINT "2. I came to school later than 7:40 am."
        INPUT tardy_reason

        IF tardy_reason = 1 THEN
            PRINT "Your tardiness is excused."
        ELSE IF tardy_reason = 2 THEN
            PRINT "Your tardiness is unexcused."
        ELSE
            PRINT "Invalid input for tardiness."

END IF

ELSE IF status = 2 THEN
PRINT "1. The reason for absence was an illness, medical appointment, family emergency."
PRINT "2. The reason for absence was no valid excuse letter or medical certificate submitted after returning, personal reasons not school-approved, cutting classes, dress code violations, etc.?"
INPUT absence_reason

IF absence_reason = 1 THEN
PRINT "Your absence is excused."
ELSE IF absence_reason = 2 THEN
PRINT "Your absence is unexcused."
ELSE
PRINT "Invalid input for absence
END IF

ELSE IF status = 3 THEN
PRINT "Noted."

Else
PRINT " Invalid status."

END IF

END

GitHub Repository Link

The link below leads to the Final Project CS 2 repository for Team 6 (8-Dahlia):
https://github.com/gab-netize87724/Final-Project-CS2