

PYTHON CODE/FILE

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attendance = []

while True:
    print("\n>>> Student Attendance Recording System <<<")
    print("1. Teacher\n2. Adviser/Coordinator\n3. Exit")
    role = input("> ")

    if role == "1":
        while True:
            print("\n(Teacher Mode)\n1. Mark Present/Absent (P/A)\n2. Review attendance per day\n3. Back to main menu")
            c = input("> ")

            if c == "1":
                date = input("Enter date (YYYY-MM-DD): ")
                for r in range(int(input("How many students? "))):
                    n = input("Name of the student: ")
                    s = input("P = Present, A = Absent: ").upper()
                    attendance.append([n, date, s])
                print("Attendance recorded!\n")

            elif c == "2":
                d = input("Enter date (YYYY-MM-DD): ")
                f = [r for r in attendance if r[1] == d]
                if f:
                    print(f"\nAttendance on {d}")
                    for r in f:
                        print(f"{r[0]}: {'Present' if r[2]=='P' else 'Absent'}")
                else:
                    print("No records, please try again.\n")

            elif c == "3":
                break

            else:
                print("Invalid selection, try again.\n")
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elif role == "2":
    while True:
        print("\n(Adviser/Coordinator Mode)\n1. Monthly Report\n2.
Student Summary\n3. Back to main menu")
        c = input("> ")

        if c == "1":
            m = input("Enter Month (YYYY-MM): ")
            found = False
            for n in {r[0] for r in attendance}:
                p = sum(r[2]=="P" for r in attendance if r[0]==n and
r[1][:7]==m)
                a = sum(r[2]=="A" for r in attendance if r[0]==n and
r[1][:7]==m)

                if p+a:
                    print(f"{n}: Present = {p}, Absent = {a}")
                    found = True
            if not found:
                print("No data, please try again.\n")

        elif c == "2":
            n = input("Student name: ")
            p = sum(r[2]=="P" for r in attendance if r[0]==n)
            a = sum(r[2]=="A" for r in attendance if r[0]==n)
            print(f"{n}: Present = {p}, Absent = {a}\n" if p+a else
"No record.\n")

        elif c == "3":
            break

        else:
            print("Invalid selection, try again.\n")

elif role == "3":
    print("Exiting the system!!!")
    break
else:
    print("Invalid selection please try again!\n")

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