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students = []
logged_user = None
logged = False

def register():
    print("*** Registration ***")
    username = input("Enter username: ")
    for student in students:
        if (student['username'] == username):
            print("Username already exists")
            return
    password = input("Enter password: ")
    name      = input("Enter your full name: ")
    roll_no   = input("Enter roll number: ")
    email     = input("Enter email: ")
    phone     = input("Enter phone number: ")
    branch    = input("Enter branch: ")
    year      = input("Enter year: ")
    dob       = input("Enter date of birth: ")
    gender    = input("Enter gender: ")
    address   = input("Enter address: ")
    student  ={
        "username": username,
        "password": password,
        "name": name,
        "roll_no": roll_no,
        "email": email,
        "phone": phone,
        "branch": branch,
        "year": year,
        "dob": dob,
        "gender": gender,
        "address": address
    }
    students.append(student)
    print("Registration successful :)")

def login():
    global logged_user, logged
    print("*** Login ***")
    username = input("Enter username: ")
    password = input("Enter password: ")
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        for student in students:
            if (student['username'] == username) and (student['password'] == password):
                logged_user = username
                logged = True
                print(f"Login successful. Welcome, {student['name']}!")
                return
        print("Invalid username or password.")

def show_profile():
    if not logged:
        print("Please login first.")
        return
    for student in students:
        if (student['username'] == logged_user):
            print("*** Profile ***")
            for k, v in student.items():
                if (k != 'password'):
                    print(f"{k}: {v}")
            return
    print("Profile not found.")

def update_profile():
    if not logged:
        print("Please login first.")
        return
    for student in students:
        if (student['username'] == logged_user):
            print("What do you want to update?")
            for k in student.keys():
                if (k != 'username') and (k != 'password'):
                    print(k)
            field = input("Enter field name to update: ")
            if (field in student) and (field not in ['username', 'password']):
                new_val = input(f"Enter new value for {field}: ")
                student[field] = new_val
                print("Profile updated")
            else:
                print("Invalid field")
            return

def logout():

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global logged_user, logged
logged_user = None
logged = False
print("Logged out successfully.")

def terminate():
    print("Exiting system. Bye!")
    exit()

def main():
    while True:
        print("\nWelcome in LNCT")
        response = input('''
Choose option:
1. Registration
2. Login
3. Profile
4. Update profile
5. Logout
6. Main Menu
7. Exit

        select option 1/2/3/4/5/6/7: ''')

        if response == '1':
            register()
        elif response == '2':
            login()
        elif response == '3':
            show_profile()
        elif response == '4':
            update_profile()
        elif response == '5':
            logout()
        elif response == '6':
            continue
        elif response == '7':
            terminate()
        else:
            print("Invalid Choice, Please select correct option")

main()
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