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import csv
from datetime import datetime
expenses=[]
monthly_budget=0

def add_expense():
    date=input("Enter the date of the expense (YYYY-MM-DD): ")
    category=input("Enter the category of the expense: ")
    amount=input("Enter the amount spent:")
    description=input("Enter a brief description of the expense: ")
    try:
        amount=float(amount)
        datetime.strptime(date, '%Y-%m-%d')
        expense={
            'date': date,
            'category': category,
            'amount': amount,
            'description': description
        }
        expenses.append(expense)
        print("Expense added successfully")
    except ValueError:
        print("Invalid input! Please ensure the amount is a number and the date is in the expected format (YYYY-MM-DD)")

def view_expense():
    global expenses

    if not expenses:
        print("No expenses recorded.")
        return
    print("\nSaved Expenses:")
    for expense in expenses:
        if all(key in expense for key in ['date', 'category', 'amount', 'description']):
            print(f>Date: {expense['date']}, Category: {expense['category']}, Amount: ${expense['amount']:.2f}, Description: {expense['description']}")
        else:
            print("Incomplete expense entry found. Skipping the entry")

def set_budget():
    global monthly_budget
    budget_input=input("Enter your monthly budget: ")
    try:
        monthly_budget=float(budget_input)
        print(f"Monthly budget set to {monthly_budget:.2f}")
    except ValueError:
        print("Invalid input! Please enter a valid number.")

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def track_budget():
    total_expenses=sum(expense['amount'] for expense in expenses)
    print(f"Total Expenses: {total_expenses:.2f}")
    if total_expenses>monthly_budget:
        print("You have exceeded your budget")
    else:
        balance_remaining=monthly_budget-total_expenses
        print(f"You have {balance_remaining:.2f} left for this
month.")

def save_expenses():
    with open('Expenses.csv',mode='w',newline='') as file:
        writer=csv.DictWriter(file,fieldnames=['date','category','amount','des
cription'])
        writer.writeheader()
        for expense in expenses:
            writer.writerow(expense)
        print("Expenses saved to Expenses.csv.")

def load_expenses():
    global expenses
    try:
        with open('Expenses.csv', mode='r') as file:
            reader=csv.DictReader(file)
            expenses=[row for row in reader]
            for expense in expenses:
                expense['amount']=float(expense['amount'])
            print("Expenses loaded from Expense.csv.")
    except FileNotFoundError:
        print("No previous expenses found. Starting fresh.")
    except Exception as e:
        print(f"Error loading expenses: {e}")

def display_menu():
    print("\nMenu:\n1. Add expense\n2. View expenses\n3. Track budget\
n4. Save expenses\n5. Exit")

def main():
    load_expenses();
    while True:
        display_menu();
        choice=input("Select an option (1-5): ")

        if choice=='1':
            add_expense()
        elif choice=='2':
            view_expense()
        elif choice=='3':

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        set_budget()
        track_budget()
    elif choice=='4':
        save_expenses()
    elif choice=='5':
        save_expenses()
        print("Exiting the program")
        break;
    else:
        print("Invalid choice. Please select a valid option.")
if __name__=="__main__":
    main()

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Expenses loaded from Expense.csv.

Menu:

1. Add expense
2. View expenses
3. Track budget
4. Save expenses
5. Exit

Select an option (1-5): 1

Enter the date of the expense (YYYY-MM-DD): 2002-08-09

Enter the category of the expense: Food

Enter the amount spent: 4500

Enter a brief description of the expense: Birthday Party

Expense added successfully

Menu:

1. Add expense
2. View expenses
3. Track budget
4. Save expenses
5. Exit

Select an option (1-5): 4

Expenses saved to Expenses.csv.

Menu:

1. Add expense
2. View expenses
3. Track budget
4. Save expenses
5. Exit

Select an option (1-5): 2

Saved Expenses:

Date: 2005-09-08, Category: Food, Amount: \$3400.00, Description:
Dinner with friends

Date: 2004-09-05, Category: Travel, Amount: \$500.00, Description: Road
trip with friends

Date: 2002-08-09, Category: Food, Amount: \$4500.00, Description:
Birthday Party

Menu:

1. Add expense
2. View expenses
3. Track budget
4. Save expenses
5. Exit

Select an option (1-5): 3

Enter your monthly budget: 9000

Monthly budget set to 9000.00

Total Expenses: 8400.00

You have 600.00 left for this month.

Menu:

1. Add expense
2. View expenses
3. Track budget
4. Save expenses
5. Exit

Select an option (1-5): 5

Expenses saved to Expenses.csv.

Exiting the program