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expenses = []
next_id = 1

def add_Expense(date, amount, category, description):
    global next_id
    expense = {
        'id' : next_id,
        'date' : date,
        'amount' : amount,
        'category' : category,
        'description' : description
    }
    expenses.append(expense)
    next_id += 1
    print("Expense added successfully!")

def view_expenses():
    if not expenses:
        print("No expense recorded.")
        return
    filter_choice = input("Do you want to filter by (1) Date or (2) Category? (Enter '1', '2' or '0' for none):")

    if filter_choice == '1':
        filter_date = input('Enter the date to filter (YYYY-MM-DD):')
        filtered_expenses = [expense for expense in expenses if expense['date'] == filter_date]
    elif filter_choice == '2':
        filter_category = input('Enter the category to filter:')
        filtered_expenses = [expense for expense in expenses if expense['category'].lower() == filter_category.lower()]

    else:
        filtered_expenses = expenses

    if not filtered_expenses:
        print("No expenses found for the given filter.")

    for expense in filtered_expenses:
        print(f"ID : {expense['id']}, Date : {expense['date']}, Amount : {expense['amount']}, Category : {expense['category']}, Description :")

def delete_expense(expense_id):
    index = 0
    for i in expenses:
        if i['id'] == expense_id:
            expenses.pop(index)
            print("Expense deleted successfully!")
            return
        index += 1
    print("Given expense id is not present.")

def generate_summary():
    summary = {}

    for expense in expenses:
        category = expense['category']
        summary[category] = summary.get(category,0) + expense['amount']
    for category,amount in summary.items():
        print(f"Category: {category}, Total Amount: {amount}.")

def save_expenses_to_file(filename):
    with open(filename,'w') as file:
        for expense in expenses:
            file.write(f"{expense['id']}, {expense['date']}, {expense['amount']}, {expense['category']}, {expense['description']}\n")

    print("Expenses saved to file.")

def load_expenses_from_file(filename):
    global next_id
    id = 0
    with open(filename,'r') as file:

        for line in file:
            id, date, amount, category, description = line.strip().split(',')

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        expenses.append({
            'id' : int(id),
            'date' : date,
            'amount' : float(amount),
            'category' : category,
            'description' : description
        })
        next_id = max(next_id, int(id)+1)

print("Expense loaded from the file.")

def main_menu():
    load_expenses_from_file('expenses.txt')
    while True:
        print("\nPersonal Expense Tracker")
        print("1. Add Expense")
        print("2. View Expense")
        print("3. Delete Expense")
        print("4. Summary of Expenses")
        print("5. Save Expense to File")
        print("6. Exit")

        choice = input("Choose an option: ")

        if choice == '1':
            date = input("Enter date (YYYY-MM-DD): ")
            amount = float(input("Enter amount: "))
            category = input("Enter category: ")
            description = input("Enter description: ")
            add_expense(date, amount, category, description)
        elif choice == '2':
            view_expenses()
        elif choice == '3':
            expense_id = int(input("Enter expense ID to delete: "))
            delete_expense(expense_id)

        elif choice == '4':
            generate_summary()

        elif choice == '5':
            save_expenses_to_file('expenses.txt')

        elif choice == '6':
            print("Exiting the program.")
            break
        else:
            print("Invalid Option, Please try again.")

main_menu()

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➡ Expense loaded from the file.

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Personal Expense Tracker
1. Add Expense
2. View Expense
3. Delete Expense
4. Summary of Expenses
5. Save Expense to File
6. Exit
Choose an option: 2
Do you want to filter by (1) Date or (2) Category? (Enter '1', '2' or '0' for none):0
ID : 1, Date : 2024-10-14, Amount : 245.0, Category : Food, Description : morning

Personal Expense Tracker
1. Add Expense
2. View Expense
3. Delete Expense
4. Summary of Expenses

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5. Save Expense to File
6. Exit
Choose an option: 6
Exiting the program.
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Start coding or [generate](#) with AI.

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