Untitled8

October 12, 2024

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def add_expense(expenses):
    date = input("Enter the date (YYYY-MM-DD): ")
    category = input("Enter the category (e.g., Food, Travel): ")
    amount = float(input("Enter the amount: "))
    description = input("Enter a brief description: ")
    expense = {'date': date, 'category': category, 'amount': amount,␣
 ↪'description': description}
    expenses.append(expense)
    print("Expense added successfully!")
def view_expenses(expenses):
    if not expenses:
        print("No expenses recorded.")
        return
    for expense in expenses:
        print(f"Date: {expense['date']}, Category: {expense['category']},␣
 ↪Amount: {expense['amount']}, Description: {expense['description']}")
def set_budget():
    budget = float(input("Enter your monthly budget: "))
    return budget

def track_budget(expenses, budget):
    total_expenses = sum(expense['amount'] for expense in expenses)
    if total_expenses > budget:
        print("You have exceeded your budget!")
    else:
        print(f"You have {budget - total_expenses} left for the month.")
import csv

def save_expenses(expenses, filename='expenses.csv'):
    with open(filename, 'w', newline='') as file:
        writer = csv.DictWriter(file, fieldnames=['date', 'category', 'amount',␣
 ↪'description'])
        writer.writeheader()
        writer.writerows(expenses)
    print("Expenses saved successfully!")

def load_expenses(filename='expenses.csv'):
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    expenses = []
    try:
        with open(filename, 'r') as file:
            reader = csv.DictReader(file)
            for row in reader:
                row['amount'] = float(row['amount'])
                expenses.append(row)
    except FileNotFoundError:
        print("No previous expenses found.")
    return expenses
def display_menu():
    print("1. Add expense")
    print("2. View expenses")
    print("3. Track budget")
    print("4. Save expenses")
    print("5. Exit")

def main():
    expenses = load_expenses()
    budget = 0
    while True:
        display_menu()
        choice = input("Choose an option: ")
        if choice == '1':
            add_expense(expenses)
        elif choice == '2':
            view_expenses(expenses)
        elif choice == '3':
            if budget == 0:
                budget = set_budget()
            track_budget(expenses, budget)
        elif choice == '4':
            save_expenses(expenses)
        elif choice == '5':
            save_expenses(expenses)
            print("Goodbye!")
            break
        else:
            print("Invalid choice. Please try again.")

if __name__ == "__main__":
    main()
```

```
No previous expenses found.
1. Add expense
2. View expenses
3. Track budget
```

4. Save expenses
5. Exit

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