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import json
import os
from collections import defaultdict
from datetime import datetime

# Function to load existing expenses from a file or create a new file if not exists
def load_expenses():
    if os.path.exists("expenses.json"):
        with open("expenses.json", "r") as file:
            return json.load(file)
    else:
        return defaultdict(list)

# Function to save expenses to a file
def save_expenses(expenses):
    with open("expenses.json", "w") as file:
        json.dump(expenses, file, indent=4)

# Function to add a new expense
def add_expense(expenses, amount, category, description):
    date = datetime.now().strftime("%Y-%m-%d")
    expenses[date].append({"amount": amount, "category": category, "description": description})

# Function to calculate monthly expenses
def calculate_monthly_expenses(expenses):
    monthly_expenses = defaultdict(float)
    for date, daily_expenses in expenses.items():
        month = datetime.strptime(date, "%Y-%m-%d").strftime("%Y-%m")
        for expense in daily_expenses:
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            monthly_expenses[month] += expense["amount"]
    return monthly_expenses

# Function to calculate category-wise expenditure
def calculate_category_wise_expense(expenses):
    category_wise_expense = defaultdict(float)
    for daily_expenses in expenses.values():
        for expense in daily_expenses:
            category_wise_expense[expense["category"]] += expense["amount"]
    return category_wise_expense

# Main function to interact with the user
def main():
    expenses = load_expenses()

    while True:
        print("\nExpense Tracker Menu:")
        print("1. Add Expense")
        print("2. View Monthly Expenses")
        print("3. View Category-wise Expenditure")
        print("4. Exit")

        choice = input("Enter your choice: ")

        if choice == "1":
            amount = float(input("Enter the amount spent: "))
            category = input("Enter the category: ")
            description = input("Enter a brief description: ")
            add_expense(expenses, amount, category, description)
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            save_expenses(expenses)
            print("Expense added successfully!")
        elif choice == "2":
            monthly_expenses = calculate_monthly_expenses(expenses)
            for month, amount in monthly_expenses.items():
                print(f"{month}: ${amount:.2f}")
        elif choice == "3":
            category_wise_expense = calculate_category_wise_expense(expenses)
            for category, amount in category_wise_expense.items():
                print(f"{category}: ${amount:.2f}")
        elif choice == "4":
            print("Exiting...")
            break
        else:
            print("Invalid choice! Please enter a valid option.")

if _name_ == "_main_":
    main()
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