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import csv

import os

from collections import defaultdict

from datetime import datetime


class ExpenseTracker:

    def __init__(self):

        self.expenses = defaultdict(list)

        self.categories = set()


    def add_expense(self, amount, description, category):

        self.expenses[category].append({'amount': amount, 'description': description, 'date':
datetime.now()})

        self.categories.add(category)


    def save_expenses_to_csv(self, filename):

        with open(filename, 'w', newline='') as csvfile:

            fieldnames = ['date', 'amount', 'description', 'category']

            writer = csv.DictWriter(csvfile, fieldnames=fieldnames)

            writer.writeheader()

            for category, category_expenses in self.expenses.items():

                for expense in category_expenses:

                    writer.writerow({'date': expense['date'], 'amount': expense['amount'],

                                     'description': expense['description'], 'category': category})


    def load_expenses_from_csv(self, filename):

        if os.path.exists(filename):

            with open(filename, 'r') as csvfile:

                reader = csv.DictReader(csvfile)
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        for row in reader:

            self.expenses[row['category']].append({'amount': float(row['amount']),
                                                    'description': row['description'],
                                                    'date': datetime.strptime(row['date'], '%Y-%m-%d
%H:%M:%S')})

            self.categories.add(row['category'])

def monthly_summary(self):
    summary = {}
    for category, category_expenses in self.expenses.items():
        monthly_total = sum(expense['amount'] for expense in category_expenses
                             if expense['date'].month == datetime.now().month)
        summary[category] = monthly_total
    return summary

# Example usage:
if __name__ == "__main__":
    tracker = ExpenseTracker()
    tracker.load_expenses_from_csv('expenses.csv') # Load existing expenses from file if it exists

# User input loop
while True:
    print("\n1. Add Expense")
    print("2. Monthly Summary")
    print("3. Save and Quit")
    choice = input("Enter your choice: ")

    if choice == '1':
        amount = float(input("Enter the amount spent: "))

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description = input("Enter a brief description: ")
category = input("Enter expense category: ")
tracker.add_expense(amount, description, category)
elif choice == '2':
    summary = tracker.monthly_summary()
    for category, total in summary.items():
        print(f"{category}: {total}")
elif choice == '3':
    tracker.save_expenses_to_csv('expenses.csv')
    break
else:
    print("Invalid choice. Please try again.")
```