

MINI PROJECT

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Github Repo: https://github.com/RashmiAcharya24/expense_tracker_application

LinkedIn post link: <https://www.linkedin.com/posts/rashmi-acharya-1b878230b>

CODE:

```
# File to store expense data
```

```
DATA_FILE = "expenses.txt"
```

```
# Initialize data structure
```

```
expenses = []
```

```
# Load existing data
```

```
def load_data():
```

```
    global expenses
```

```
    try:
```

```
        with open(DATA_FILE, "r") as file:
```

```
            for line in file:
```

```
                amount, category, date = line.strip().split(",")
```

```
                expenses.append({"amount": float(amount), "category": category, "date":  
date})
```

```
    except FileNotFoundError:
```

```
        pass
```

```
# Save data
```

```
def save_data():
```

```
with open(DATA_FILE, "w") as file:
```

```
    for expense in expenses:
```

```
        file.write(f'{expense["amount"]},{expense["category"]},{expense["date"]}\n')
```

```
# Add expense
```

```
def add_expense():
```

```
    amount = float(input("Enter amount: $"))
```

```
    category = input("Enter category: ")
```

```
    date = input("Enter date (YYYY-MM-DD): ")
```

```
    expense = {"amount": amount, "category": category, "date": date}
```

```
    expenses.append(expense)
```

```
    save_data()
```

```
    print("Expense added successfully!")
```

```
# View summaries
```

```
def view_summaries():
```

```
    total_spending = sum(expense["amount"] for expense in expenses)
```

```
    print("Total overall spending: $", total_spending)
```

```
    categories = {}
```

```
    for expense in expenses:
```

```
        category = expense["category"]
```

```
        if category in categories:
```

```
            categories[category] += expense["amount"]
```

```
        else:
```

```
            categories[category] = expense["amount"]
```

```
    print("Total spending by category:")
```

```
    for category, amount in categories.items():
```

```
        print(f'{category}: ${amount}')
```

```
# Daily summary
daily_spending = {}
for expense in expenses:
    date = expense["date"]
    if date in daily_spending:
        daily_spending[date] += expense["amount"]
    else:
        daily_spending[date] = expense["amount"]
print("Daily spending:")
for date, amount in daily_spending.items():
    print(f'{date}: ${amount}')
```

Delete expense

```
def delete_expense():
    index = int(input("Enter expense index to delete: ")) - 1
    if index < len(expenses):
        del expenses[index]
        save_data()
        print("Expense deleted successfully!")
    else:
        print("Invalid index.")
```

Edit expense

```
def edit_expense():
    index = int(input("Enter expense index to edit: ")) - 1
    if index < len(expenses):
        expense = expenses[index]
        print("Enter new values (press Enter to keep current value):")
```

```

    expense["amount"] = float(input(f'Amount (${expense['amount']}): ') or
expense["amount"])

    expense["category"] = input(f'Category ({expense['category']}): ') or
expense["category"]

    expense["date"] = input(f'Date ({expense['date']}): ') or expense["date"]

    save_data()

    print("Expense updated successfully!")

else:

    print("Invalid index.")


# Main menu
def main_menu():
    load_data()
    while True:
        print("\nExpense Tracker Menu:")
        print("1. Add Expense")
        print("2. View Summaries")
        print("3. Delete Expense")
        print("4. Edit Expense")
        print("5. Exit")
        choice = input("Enter choice: ")
        if choice == "1":
            add_expense()
        elif choice == "2":
            view_summaries()
        elif choice == "3":
            delete_expense()
        elif choice == "4":
            edit_expense()
        elif choice == "5":

```

```
break
```

```
else:
```

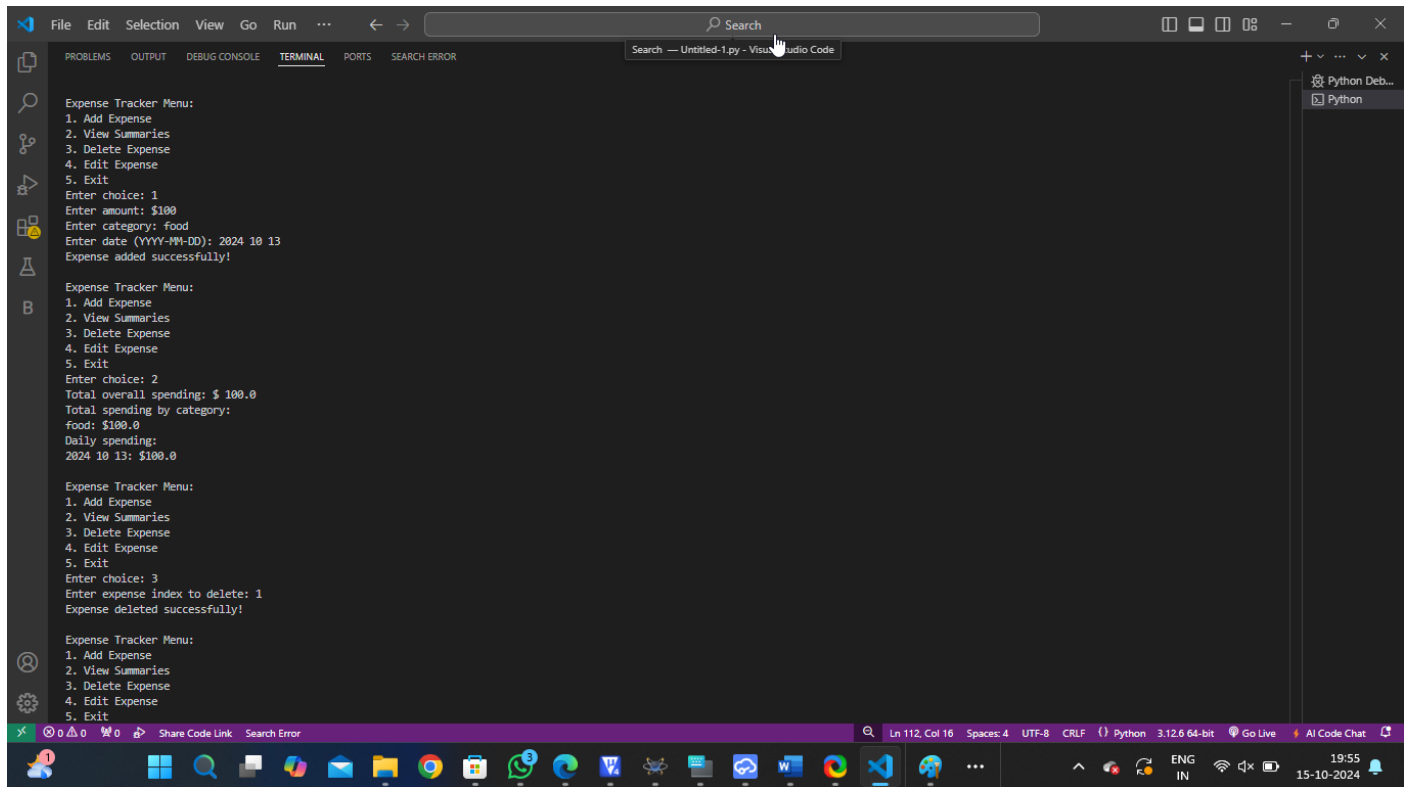
```
    print("Invalid choice. Please try again.")
```

```
# Entry point
```

```
if __name__ == "__main__":
```

```
    main_menu()
```

OUTPUT



```
Expense Tracker Menu:
1. Add Expense
2. View Summaries
3. Delete Expense
4. Edit Expense
5. Exit
Enter choice: 1
Enter amount: $100
Enter category: food
Enter date (YYYY-MM-DD): 2024 10 13
Expense added successfully!

Expense Tracker Menu:
1. Add Expense
2. View Summaries
3. Delete Expense
4. Edit Expense
5. Exit
Enter choice: 2
Total overall spending: $ 100.0
Total spending by category:
food: $100.0
Daily spending:
2024 10 13: $100.0

Expense Tracker Menu:
1. Add Expense
2. View Summaries
3. Delete Expense
4. Edit Expense
5. Exit
Enter choice: 3
Enter expense index to delete: 1
Expense deleted successfully!

Expense Tracker Menu:
1. Add Expense
2. View Summaries
3. Delete Expense
4. Edit Expense
5. Exit
```

