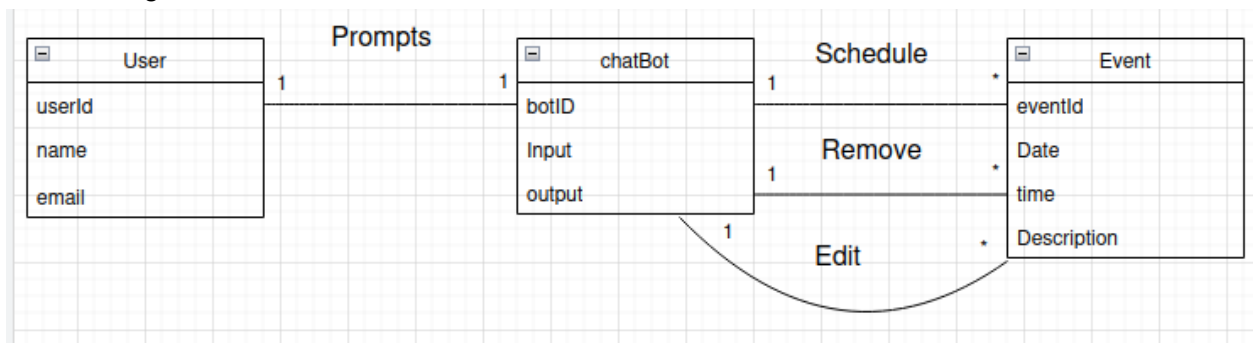


OVERVIEW

Our Idea is to create a calendar with an integrated chat bot capable of scheduling events. This will be usable by anyone who is trying to create a plan or keep track of events. Having the chatbot will make scheduling less of a hassle. The calendar will operate like a regular calendar being able to add events, delete events, look at specific day's events, or check availability. On top of this the calendar will have a chatbot that can do these things for you but in natural language rather than filling out fields.

DOCUMENTATION

Below is a general model of our classes:



- Model View Controller
 - Model
 - Database
 - View
 - Calendar and Chatbot GUI
 - Controller
 - Calendar and Chatbot classes
- Singleton
 - Calendar GUI is a singleton so there isn't 40 windows

TESTS

- Most of our testing has been Manual testing
 - Running code and ensuring it runs properly
- So far we have three automated tests using unittest.
 - Test the add,remove, and list functions

```
PS D:\fall2025\CS2450\calendar_project> python -m unittest tests/test_calendar.py -v
• test_add_and_list (tests.test_calendar.CalendarTests.test_add_and_list) ...
  ok
test_list_by_date (tests.test_calendar.CalendarTests.test_list_by_date) ...
  ok
test_remove (tests.test_calendar.CalendarTests.test_remove) ... ok

-----
Ran 3 tests in 0.068s
```

```
alex@Alex-Desktop:~/scripts/CS2450_Final_Project/tests$ python3 test_calendar.py
...
-----
Ran 3 tests in 0.067s

OK
```

Calendar Chatbot GUI

Calendar Assistant

You: help

Bot: Commands:

- add <title> on YYYY-MM-DD [at HH:MM]
e.g. add Team meeting on 2025-11-20 at 14:00
- list
- list on YYYY-MM-DD
- remove <id>
- help

You: how do I add something?

Bot: To start adding new events, simply type 'add <title>' on YYYY-MM-DD [at HH:MM] followed by the title, date (in 'YYYY-MM-DD' format), and time. For example, you can type 'add Team meeting on 2025-11-20 at 14:00' to add a team meeting scheduled for November 20th at 2 PM.

Send

◀ November 2025 ▶

Day Month Year

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
					1	2
3	4 🔥 1 event	5	6	7	8	9
10	11 🔥 4 events	12	13	14	15	16
17	18	19	20 🔥 1 event	21	22	23
24	25	26	27	28	29 🔥 1 event	30

Event Details