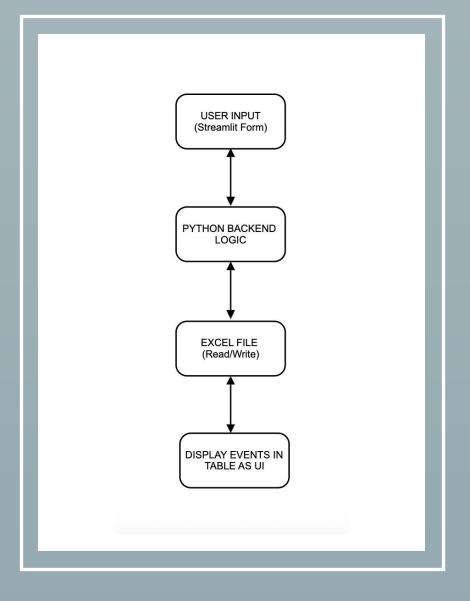
CALENDAR MANAGEMENT

An interactive calendar tool built with Python and Streamlit to create, view, and manage events easily.

APPROACH & DESIGN

Modular design: Separation of logic (calendar_logic.py) and UI (Streamlit).
Uses OOP to manage event data with Event and Calendar classes.
Excel (.xlsx) file acts as persistent backend using openpyxl.
Automatically loads/saves events with sorting and conflict checks.
Error handling for file issues and datetime formats.
Real-time available slot computation for flexible scheduling.
Streamlit interface provides forms, tables, and feedback instantly.



KEY FILES & FOLDERS

 streamlit_app.py Entry point for Streamlit app. calendar_logic.py Contains helper
functions (create,
read, delete events).

- calendar_data.xlsx
- Excel file for data storage.

EXECUTION PROCESS

I. Install dependencies using pip (Streamlit,..).

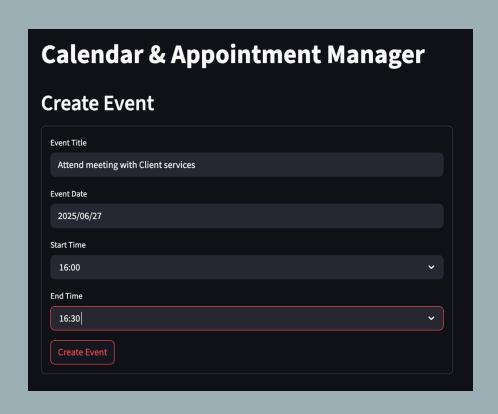
2. Run Streamlit app: streamlit run"/File/Path/N ame/streamlit_a PP·Py"

3. Add events via UI and verify updates in Excel file.

4. Delete or update events and check for correct behavior.

5. Validate time conflicts and error messages.

NOTE: Testing data when current Date & Time is 2025-06-27 3:00 PM



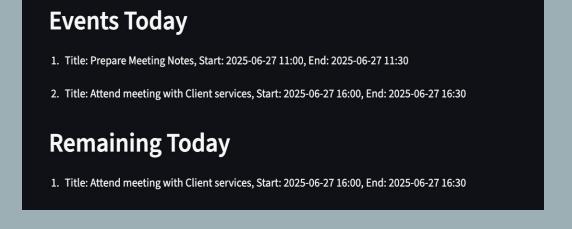
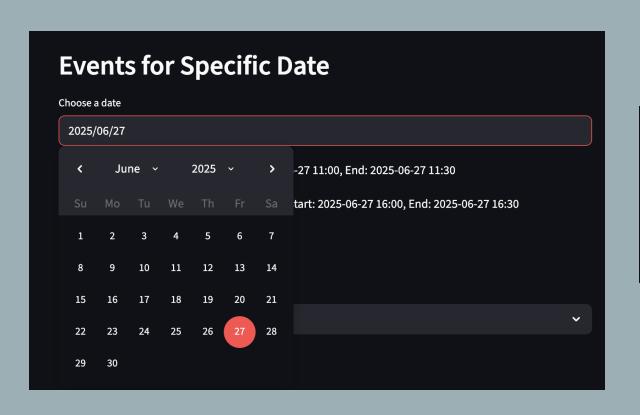


Fig 1: Creating an Event

Fig 2: Showcasing all the events and remaining events for the current day.



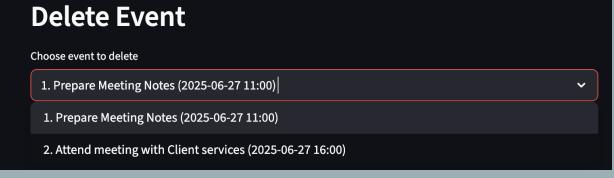


Fig 3: Identifying scheduled events for a selected day

Fig 4:Deleting any event from list of all the events

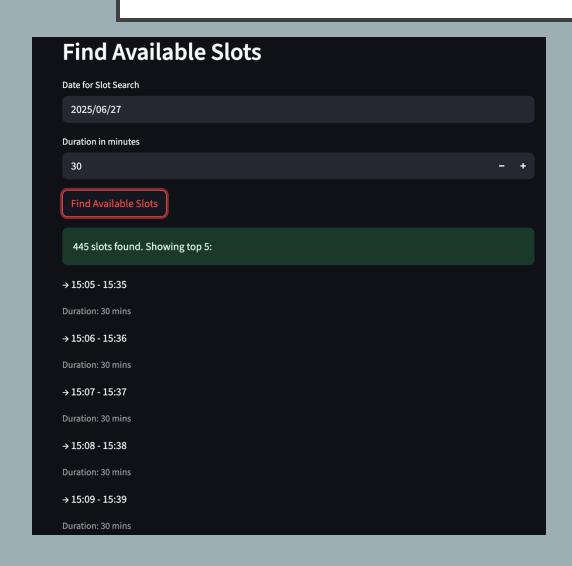
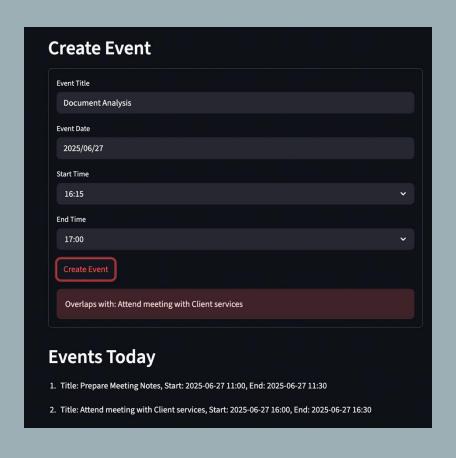


Fig 5: Finding next available slot for given duration

TEST CASE I: Trying to schedule an event in an already scheduled slot.



TEST CASE 2: Only showing the events remaining for the current day while excluding the completed tasks.

Events Today

- 1. Title: Prepare Meeting Notes, Start: 2025-06-27 11:00, End: 2025-06-27 11:30
- 2. Title: Attend meeting with Client services, Start: 2025-06-27 16:00, End: 2025-06-27 16:30
- 3. Title: Document Analysis, Start: 2025-06-27 16:45, End: 2025-06-27 17:30

Remaining Today

- 1. Title: Attend meeting with Client services, Start: 2025-06-27 16:00, End: 2025-06-27 16:30
- 2. Title: Document Analysis, Start: 2025-06-27 16:45, End: 2025-06-27 17:30

4	A	В	С	D
1	Title	Start Time	End Time	
2	Attend meeting with Client servi	2025-06-27 16:00:00	2025-06-27 16:30:00	
3	Prepare Meeting Notes	2025-06-27 11:00:00	2025-06-27 11:30:00	
4	Document Analysis	2025-06-27 16:45:00	2025-06-27 17:30:00	
5	Submit Project	2025-06-28 10:00:00	2025-06-28 10:30:00	
6				
7				
8				
9				
10				

Fig 6: The given user input is stored in the excel file "calendar_data.xlsx"

Github Repository:

https://github.com/Lasvitha05/Calendar-Management-Application/tree/main

THANK YOU!!