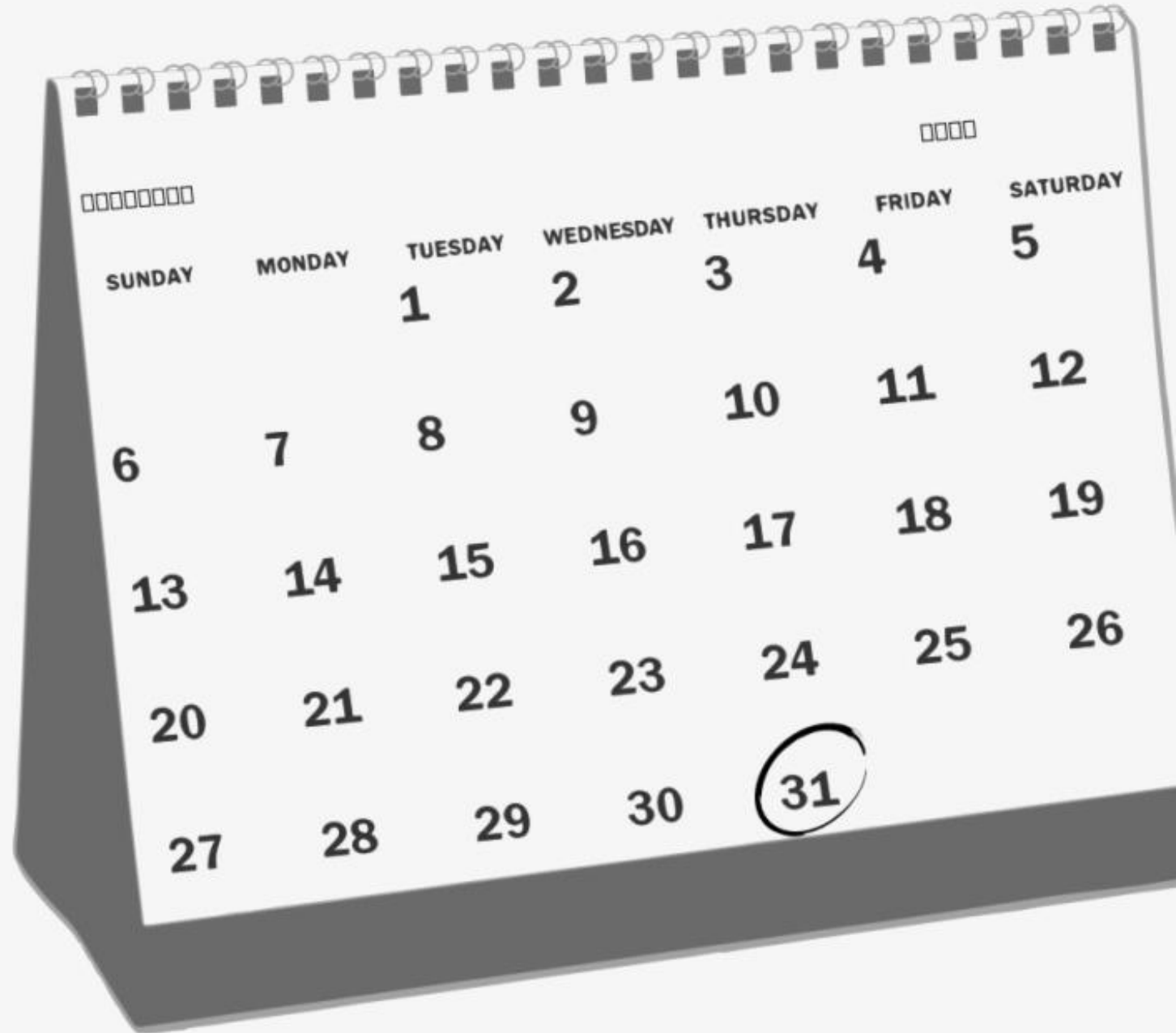


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# SIMPLE CALENDAR & EVENT MANAGER



MANASA PAVUSHETTY

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# APPROACH & DESIGN

- **Language:** Python
- **Type:** Command-line app
- **Storage:** storage.json file
- Core Modules:
  - Event: Represents a calendar event
  - Scheduler: Handles logic (add, list, find free slots)
  - cli.py: Main program loop for user interaction



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# KEY FILES & FOLDERS

File	Purpose
<code>eventClass.py</code>	Defines the Event class and logic
<code>eventScheduler.py</code>	Defines Scheduler, core operations
<code>cli.py</code>	CLI interface using input()
<code>storage.json</code>	Stores saved events in JSON format
<code>README.md</code>	Setup and usage instructions

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# HOW TO RUN, TEST, AND VERIFY

## Run

- Open terminal or VS Code.
- Navigate to the project folder
- Run: `python cli.py`
- Follow interactive prompts.

## Test

- Try creating events:
  - In the future
  - With overlap
  - With end before start
  - With past start time

```
python cli.py
```

```
1.Create Event  2.List events  3.Show Free slots  4.quit  
option: 1  
Enter event title: Doctor Appointment  
Enter start time as MM-DD-YYYY HH:MM AM/PM: 06-21-2025 02:00  
Enter end time as MM-DD-YYYY HH:MM AM/PM: 06-21-2025 03:00 PM
```

Sample input

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# HOW TO RUN, TEST, AND VERIFY

- Try listing:
  - All today's events
  - Remaining today
  - Specific date
- Try finding free slots.

```
1.Create Event  2.List events  3.Show Free slots  4.quit
option: 1
Enter event title: hello
Enter start time as MM-DD-YYYY HH:MM AM/PM: 06-20-2025 7:00 PM
Enter end time as MM-DD-YYYY HH:MM AM/PM: 06-20-2025 9:00 PM
event_name: hello
Event hello overlaps with event Dinner.
```

## Verify

- Check console output for:
  - Event creation success/failure messages.
  - Error messages (invalid input, overlap, etc.).
- Check storage.json file for saved event data.

Overlap check

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# TEST DATA & EDGE CASES

```
[
  {
    "title": "Meeting",
    "start_time": "06-21-2025 09:00 AM",
    "end_time": "06-21-2025 10:00 AM"
  }
]
```

Example entries in storage.json:

## Edge cases tested:

- Overlapping events
- Events before current time
- Slots that cross midnight
- Full-day slot request