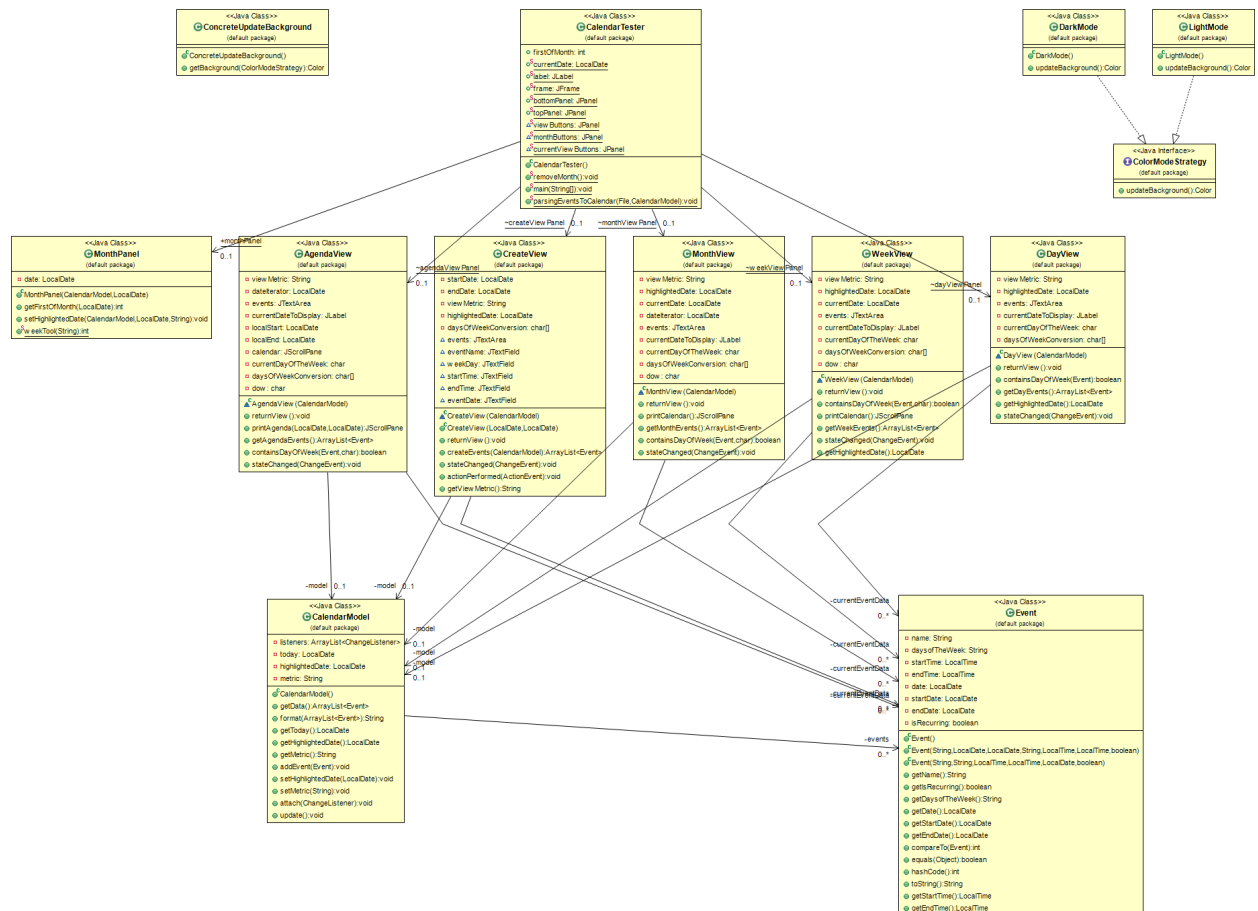


Final Report

Table of Contents

Topic
Class Diagram
Use Cases
Sequence Diagram
Screenshots

I. Class diagram



II. Use cases

Use Case 1: Load Events (“From File Button”)

Step	User’s Action	System’s Response
1	User clicks on “From File” button	
2		System opens the user’s file folder application and allows the user to specify a text file from which the events for the application will be loaded.
3	User clicks on the file that they want to load to the calendar application	
4		System parses the text document to create events. After this is done, a brief message will pop up saying "The events have been processed successfully!"

Variation #1 - Empty file

1.1 Step 1

1.2 User enters an invalid file (there is no text)

1.3 System informs the user that an invalid file has been entered and no events can be loaded via throwing an IOException

Variation #2 - Bad Formatting

2.2 Step 2

2.1 The file has text, but is unformatted.

2.2 System informs the user that the file that has been entered contains an improper date in the file.

Use Case 2: Agenda Option

Step	User’s Action	System’s Response
1	User clicks on the Agenda Button.	
2		The system prompts the user to enter a range of dates to view recurring events.

3	User enters a range of dates they want to view the recurring events on and presses enter.	
4		The system displays the events during the desired time interval.

Variation #1 - Invalid date

1.1 - Step 3

1.2 - When the user enters an invalid time interval, it will display an error message and allow the user to input them again.

Use Case 3: Day Option

Step	User's Action	System's Response
1	User clicks the day button	
2		System displays the events only occurring on the currently selected day.

Use Case 4: Week Option

Step	User's Action	System's Response
1	User clicks on the Week Button.	
2		The system displays the events during the current week time interval based on the currently selected day in the calendar.

Use Case 5: Create an Event ("Create" button)

Step	User's Action	System's Response
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1	User clicks on the create button	
		The system prompts the user to enter the name of the event, days of the week, date, starting time, and ending time of an event (one line for each criteria)
2	User enters the criteria and clicks the enter button	
3		System adds the event to the calendar.

Variation #1: Conflicting Event

- 1.1 Start Step 2
- 1.2 User enters conflicting dates with existing event
System prompts: "Conflicting dates. Please add another event."
- 1.3 Continues to Step 2
Step 2 repeats until a non-conflicting event is inputted.

Use Case 6: Moving through views - left buttons

Step	User's Action	System's Response
1	User clicks the left button	
2		System checks the current view mode that has been selected and displays events that have occurred in the previous week/day/month/year/time period depending on the view mode using the same mode.

Use Case 7: Moving through views - right button

Step	User's Action	System's Response
1	User clicks the right button	
2		System checks the current view mode that has been selected and

		displays events that have occurred in the previous week/day/month/year/time period depending on the view mode using the same mode.
--	--	--

Use Case 8: Today Button

Step	User's Action	System's Response
1	User clicks on the Today Button.	
2		<p>The system updates the selected date in the calendar then displays the events during the current time interval. (day, week, month, agenda)</p> <p>If Day Option was selected: The system will display all events during the current day time interval based on the selected date.</p> <p>If Week Option was selected: The system will display all events during the current week time interval based on the selected date.</p> <p>If Month Option was selected: The system will display all events during the current month time interval based on the selected date.</p> <p>If Agenda Option was selected: The system will display all events during the current inputted time interval based on the selected date.</p>

Use Case 9: Month Option

Step	User's Action	System's Response
1	User clicks on the Month Button.	

2		The system displays the events during the current month time interval based on the selected date.
---	--	---

Use Case 10: Calendar Panel - Clicking on a date

Step	User's Action	System's Response
1	User clicks on a date within the calendar panel	
2		The system updates the current view (if the view is month, week, or day) accordingly based on the selected date from the panel

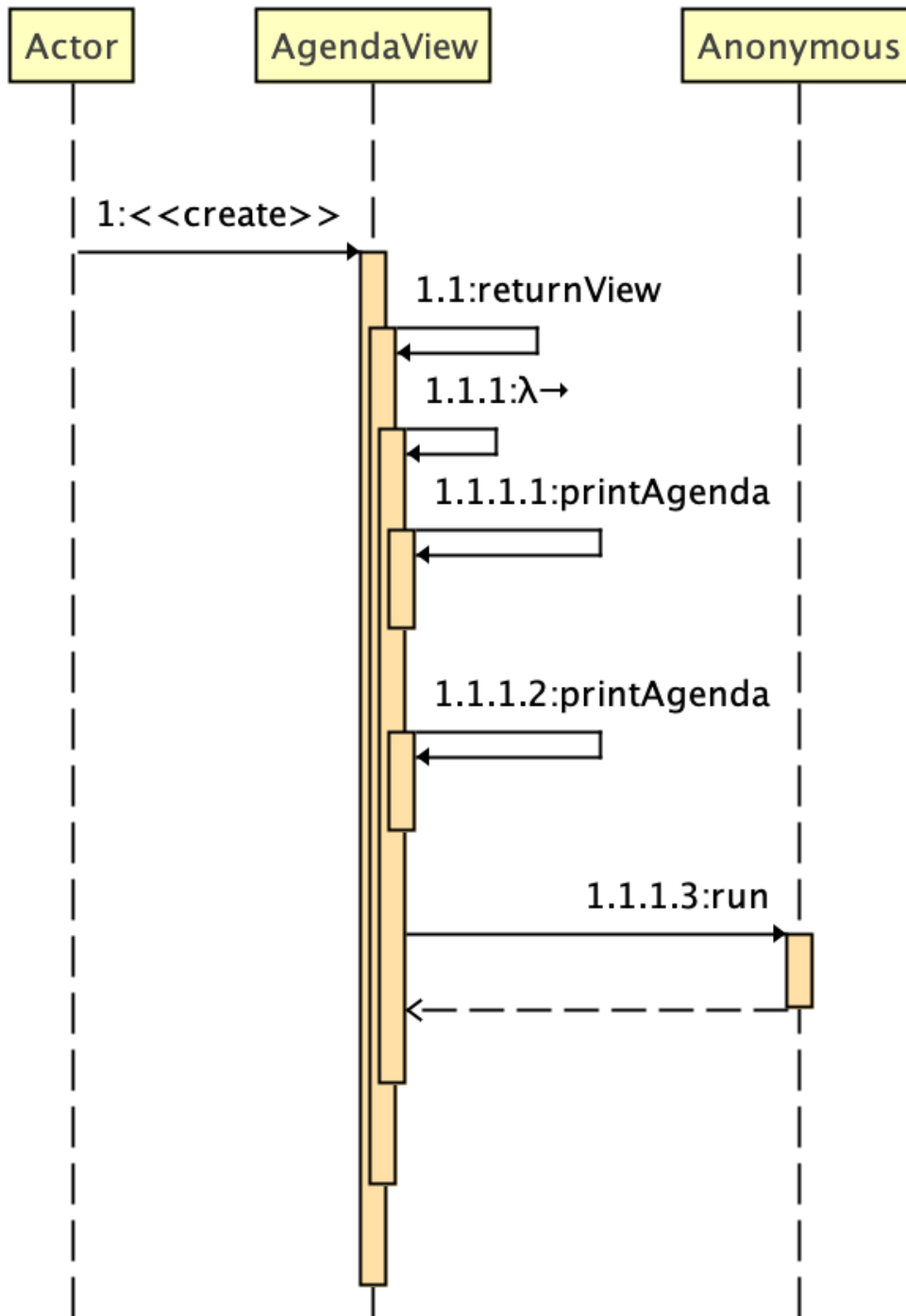
Use Case 11: Calendar Panel - Clicking on the backward buttons

Step	User's Action	System's Response
1	User clicks on the backward calendar button	
2		The calendar is updated to display the dates and buttons for the previous month. The view panel is not modified in this process.

Use Case 12: Calendar Panel - Clicking on the forward button

Step	User's Action	System's Response
1	User clicks on the forward calendar button	
2		The calendar is updated to display the dates and buttons for the next month. The view panel is not modified in this process.

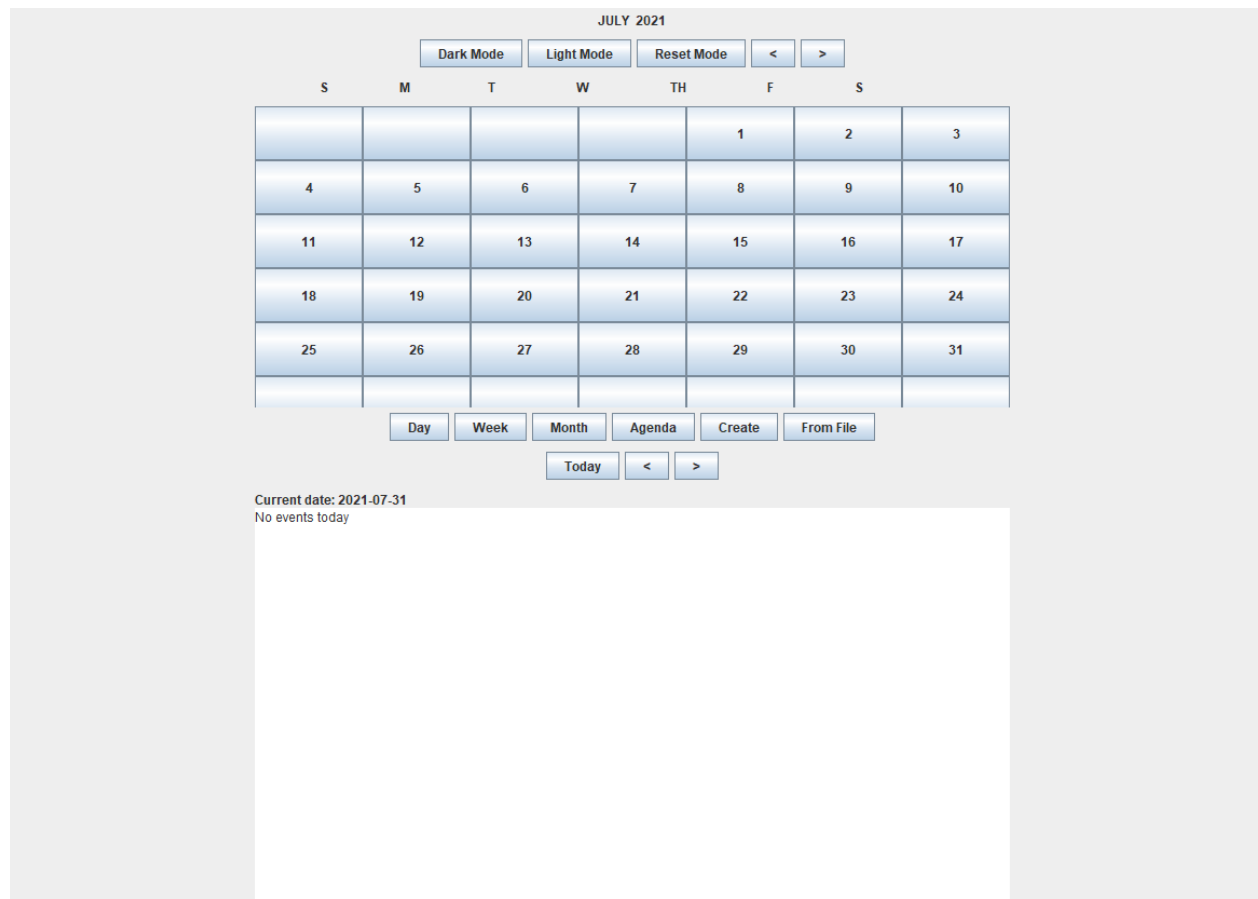
III. Sequence diagram - Only a sequence diagram for the use case "Agenda" is required.



A.

- IV. **Screenshots** that demonstrate the following functionalities. Copy and paste the given functionality description and add screenshot(s) to demonstrate that the given function works.

- A. 1 The initial screen captured after starting the program. It should show all the required GUI components.



- B. When you click on a particular date on the current calendar, the current view will change accordingly.

JULY 2021

Dark Mode Light Mode Reset Mode < >

S	M	T	W	TH	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Day Week Month Agenda Create From File

Today < >

Current date: 2021-07-24
No events today

- C. Forward/Backward buttons with the current calendar move the current calendar back and forth. During this navigation, the view doesn't change.

Forward View from July 2021 to August 2021, which leaves the view panel unchanged

AUGUST 2021

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22	23	24	25	26	27	28
29	30	31				

Day

Week

Month

Agenda

Create

From File

Today

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Current date: 2021-07-24

No events today

Backward View from July 2021 to June 2021, which leaves the view panel unchanged



- D. 4. The current calendar goes Forward/Backward infinitely. (Advance backward/forwards the current calendar to January 2000/January 2050, respectively, and get screenshots.)

JANUARY 2000

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23	24	25	26	27	28	29
30	31					

Day

Week

Month

Agenda

Create

From File

Today

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Current date: 2021-07-31

No events today

JANUARY 2050

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Light Mode

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23	24	25	26	27	28	29
30	31					

Day

Week

Month

Agenda

Create

From File

Today

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Current date: 2021-07-31

No events today

- E. 5. Today's button moves the current view to the current day, week, or month depending on the currently selected view.

JUNE 2021

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20	21	22	23	24	25	26
27	28	29	30			

Day

Week

Month

Agenda

Create

From File

Today

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Current date: 2021-07-31

No events today

F. The -> arrow with Today's button moves the current view forwards.

JULY 2021

Dark Mode

Light Mode

Reset Mode

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

Day

Week

Month

Agenda

Create

From File

Today

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Current date: 2021-08-01

No events today

G. The <- arrow with Today's button moves the current view backward.

JULY 2021

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Light Mode

Reset Mode

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

Day

Week

Month

Agenda

Create

From File

Today

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Current date: 2021-07-30

No events today

H. Day button changes the view to Day view

JULY 2021

Dark Mode

Light Mode

Reset Mode

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

Day

Week

Month

Agenda

Create

From File

Today

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Current date: 2021-07-30

No events today

I. Week button changes the view to Week view

AUGUST 2021

Dark Mode

Light Mode

Reset Mode

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Day

Week

Month

Agenda

Create

From File

Today

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-----Sun, Aug 8 2021-----

-----Mon, Aug 9 2021-----

-----Tue, Aug 10 2021-----

-----Wed, Aug 11 2021-----

Event: Test WEDNESDAY 10:10-20:20

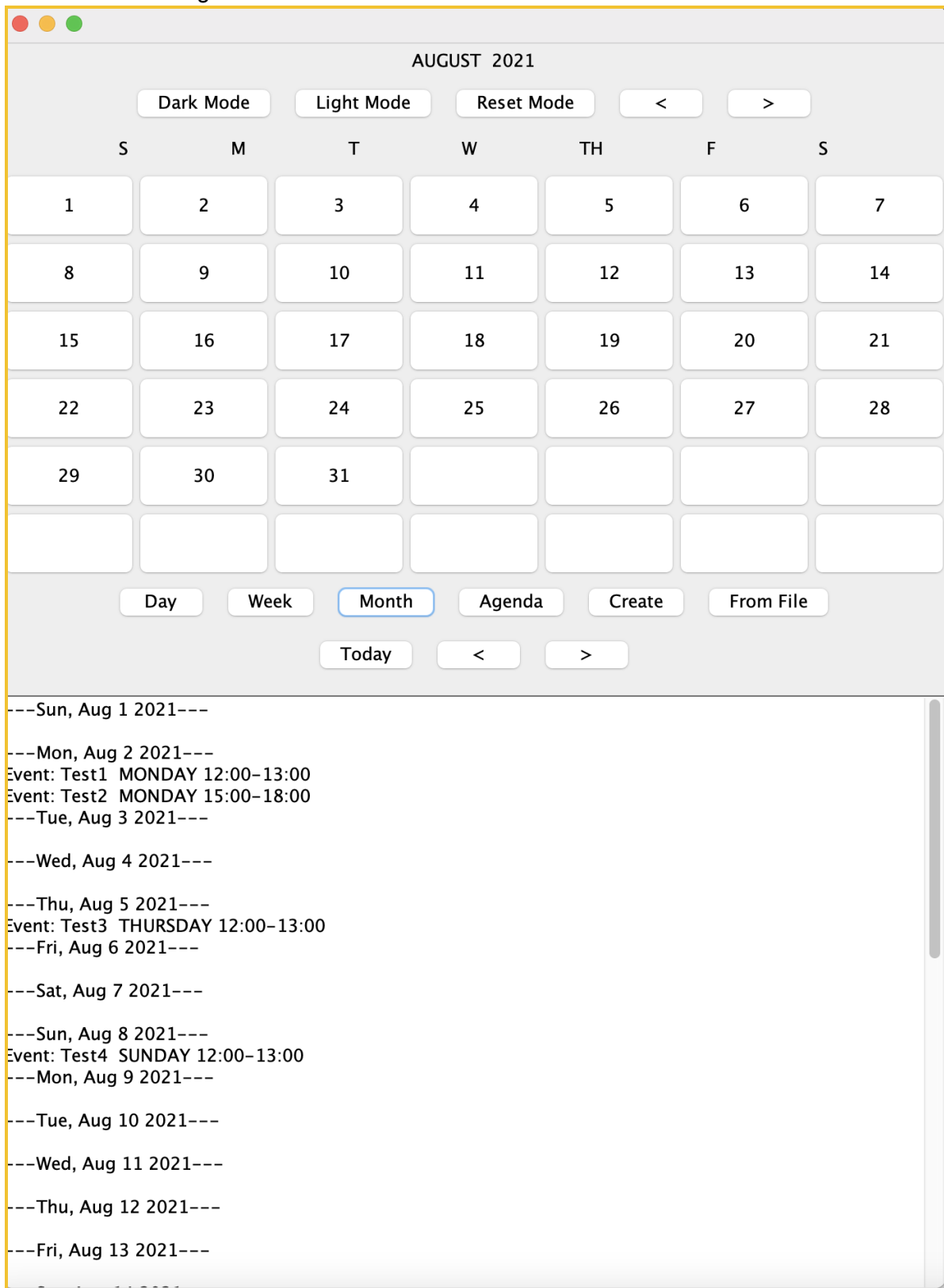
-----Thu, Aug 12 2021-----

Event: test2 THURSDAY 10:10-20:20

-----Fri, Aug 13 2021-----

-----Sat, Aug 14 2021-----

J. Month button changes the view to Month view



- K. With the Agenda button, you can enter a period and see the events scheduled in the period.

AUGUST 2021

Dark Mode

Light Mode

Reset Mode

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S	M	T	W	TH	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Day

Week

Month

Agenda

Create

From File

Today

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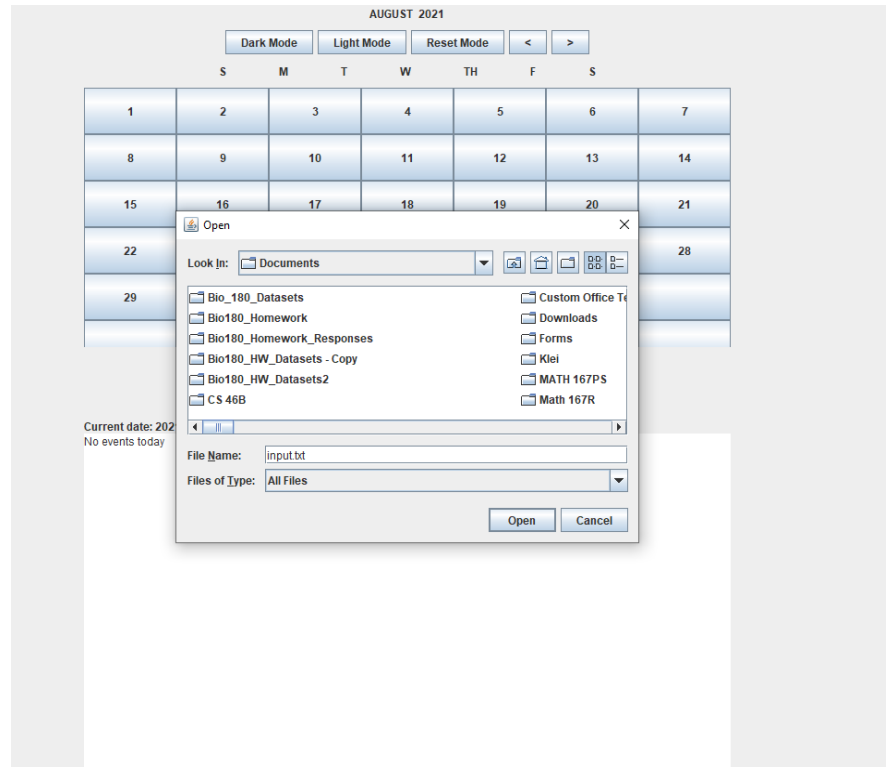
Start Date (MM/DD/YYYY) 08/01/2021 End Date (MM/DD/YYYY) 08/10/2021

Search

---Mon, Aug 2 2021---
Event: Test1 MONDAY 12:00-13:00
Event: Test2 MONDAY 15:00-18:00
---Thu, Aug 5 2021---
Event: Test3 THURSDAY 12:00-13:00
---Sun, Aug 8 2021---
Event: Test4 SUNDAY 12:00-13:00

- L. With the From file button, you can read at least 10 recurring events from a file, and they are scheduled correctly:

Clicking on the “From File” button allows the user to select a file from their directory.



After reading the events from the file, the events are scheduled correctly in the calendar.

AUGUST 2021

S	M	T	W	TH	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Current date: 2021-08-02

Event: MATH 164 MWF 14:00-16:00

Start Date: 2021-08-01 End Date: 2021-12-01