Cp317 project
Calendar 317

Instructor: Dr. Zia Ud Din

Group 10

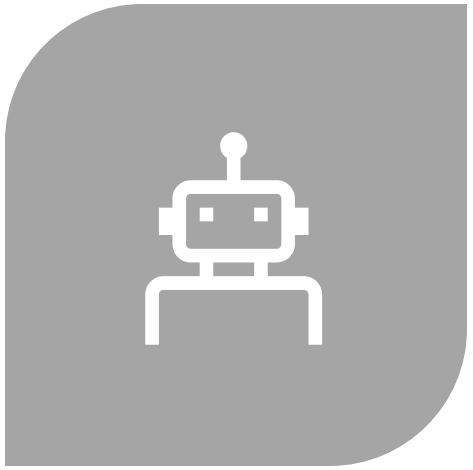
Group number

Zehao Liu
Zixuan Chen
Ruicheng Zhao
Jialong Zhang
Mengyuan Liu

- Overview of project
- Constraints
- Main function
- UML models

Overview of project

INTRODUCTION



PURPOSE

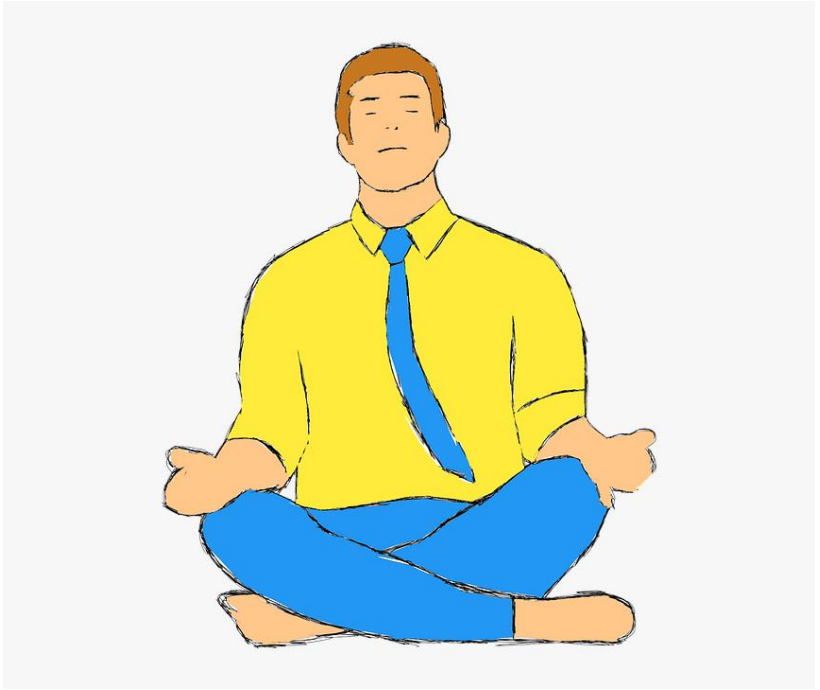
Introduction

Easy to use

User friendly

Multiplatform

Purpose



Constraints

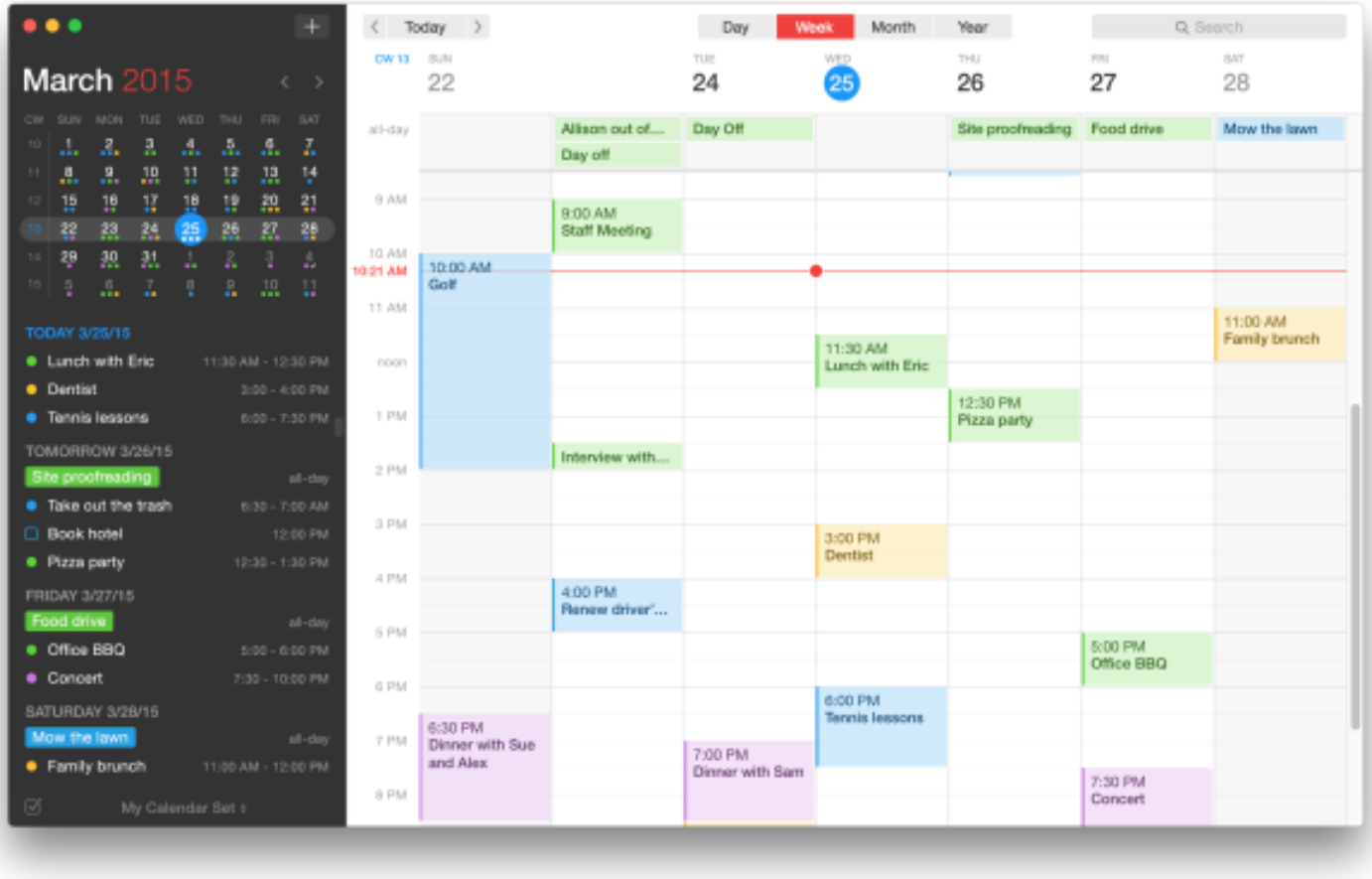
- The Calendar 317 design used Model-view-controller pattern. It may increase complexity and lead to redundant updates for user actions. For example, event class may cause diagram higher coupling.

Main functions

- Calendar
- To-do List
- Plug-in Function

Calendar

- Daily View
- Weekly View
- Monthly View



To-do List

- Sort by Time
- Sort by Priority
- Status

To-Do List

All Tasks | Sort By Time | Sort By Priority | Due Dates | + Add view | Filter | Sort | New

↑ Name | Status | Assign | + Add filter

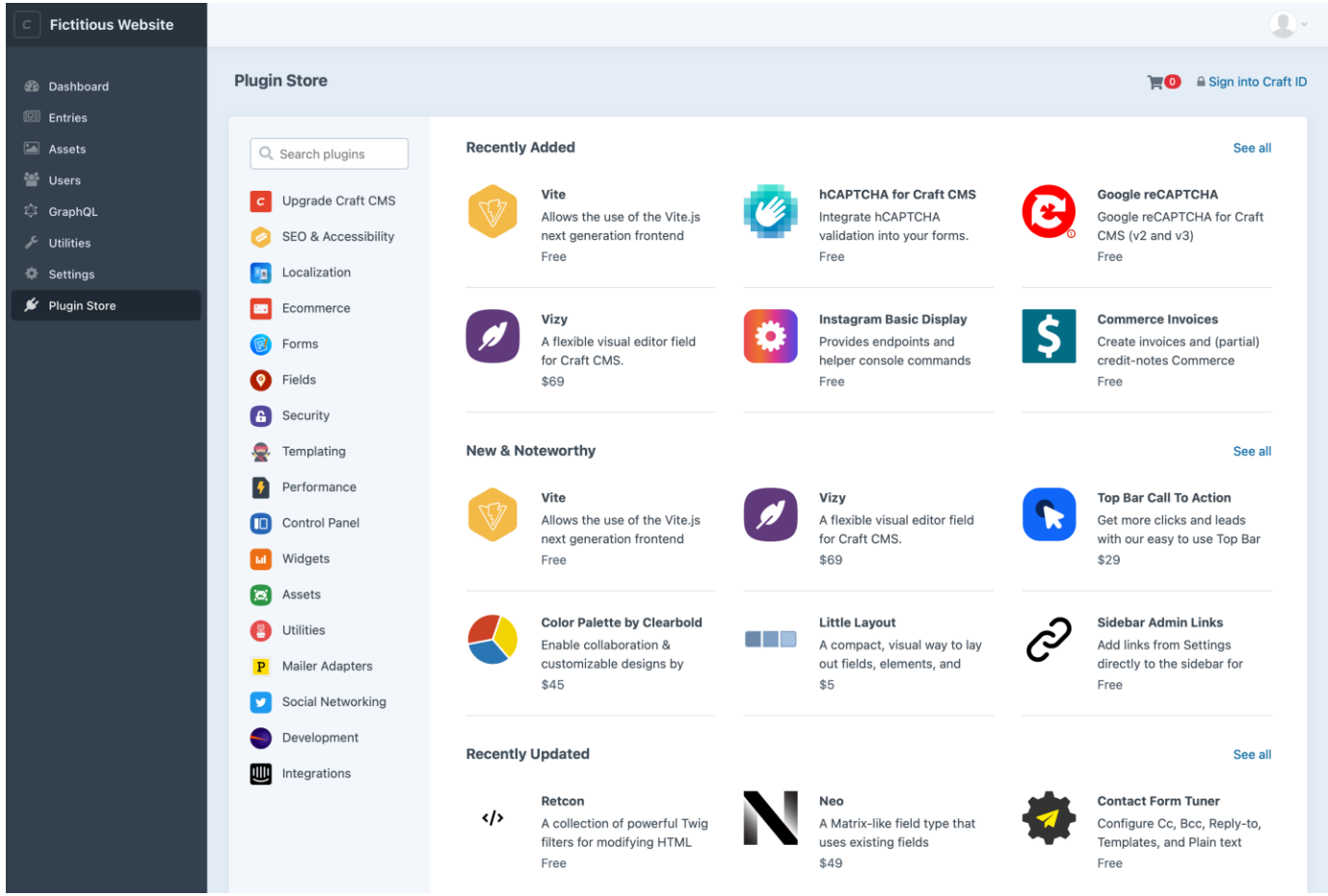
Name	Status	Assign	Priority	Due Date
Daily triage of redesign feedback	Completed		High 🔥	March 29, 2022
Develop messaging & positioning	Next Up		High 🔥	April 5, 2022
Launch new home page	In Progress		Medium	March 30, 2022
Reply email	Next Up		Low	April 3, 2022
Research campaign measurement tools	Next Up		Medium	April 7, 2022
Review announcement blog	Next Up		Medium	April 2, 2022

+ New

COUNT 6

Plug-in Function

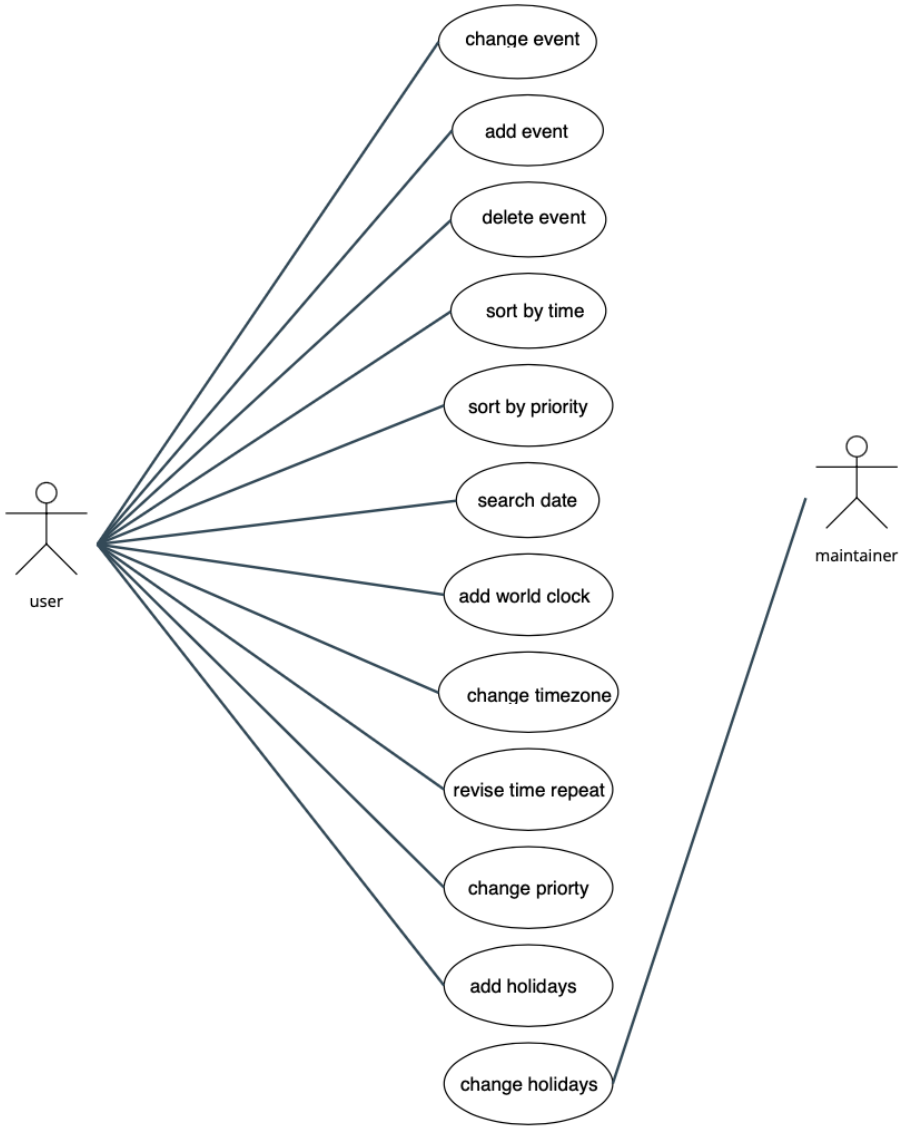
- World Clock
- Quick Note
- Journal
- Travel Planner



UML models

- Use case
- Class diagram
- Activity diagram (Delete event, Add Event)
- Sequence diagram (Delete event, Add Event, Change Event, Sort Event)

Use case


change event
add event
delete event
sort by time
sort by priority
search date
add world clock
change timezone
revise time repeat
change priorty
add holidays
change holidays
user
maintainer

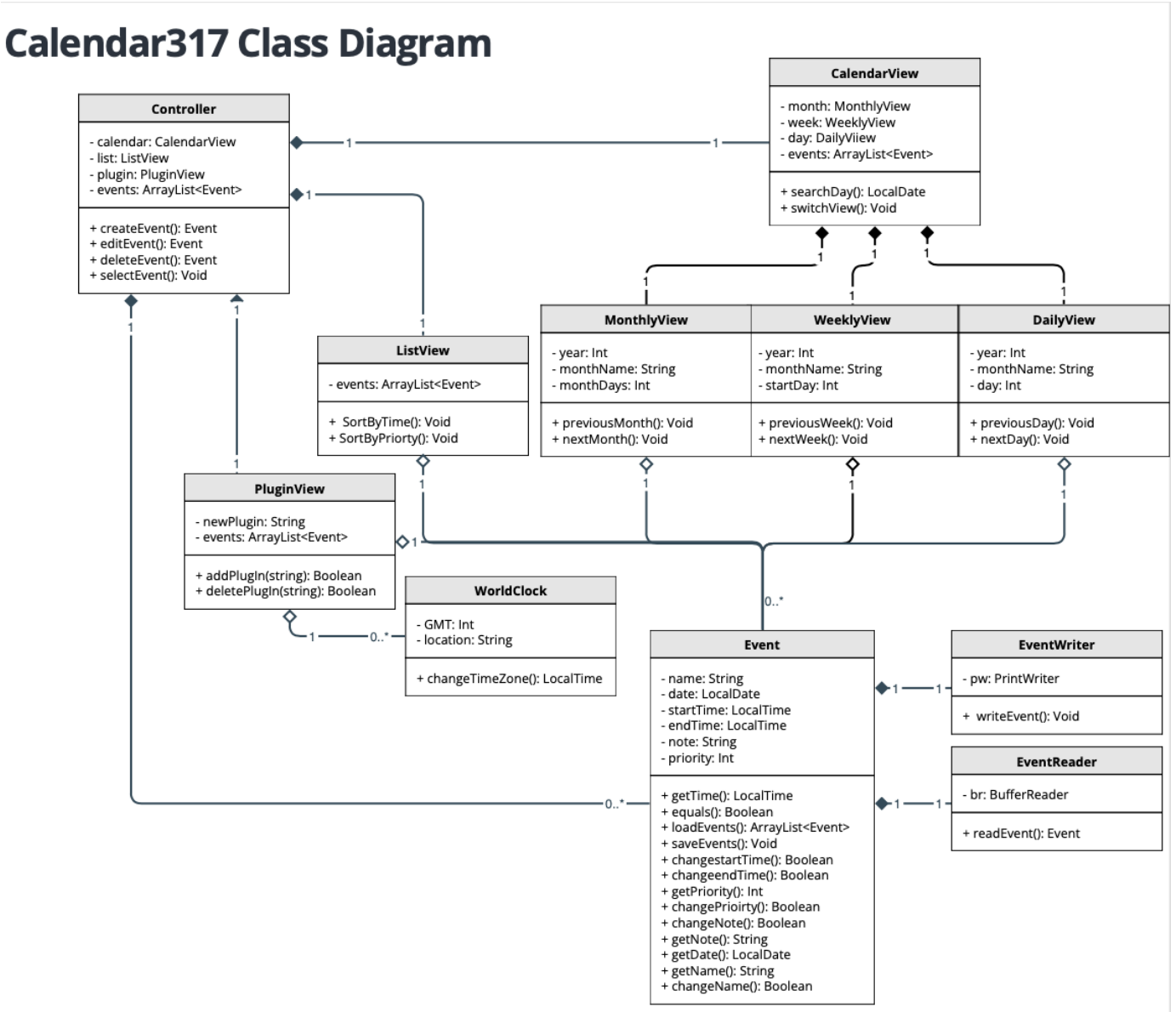
Use case

Use Case ID	UC-02
Use Case Name	Add Event
Actors	Users
Use Case Overview	It allows the user to add Event to Calendar Cell.
Trigger	The user wants to add an event to Calendar317.
Precondition	None
Normal Flow	**Case 1**: Add Event in To-Do list 1. The use case begins when the user presses the "Add Event" button. 2. An empty event is created. 3. User enters an event name. 4. (Change Priority) UC-08 is performed (optional). 5. User selects an event starting time. 6. User selects an event due date 7. User enters a detailed description of events, e.g., location of event and participants of event. Users may choose to skip this step. 8. User presses "save" button to save event. 9. Event name, starting time, due date, and optional description such as priority, location and participant are recorded and displayed on the To-Do list. 10. The Use case ends successfully. **Case 2**: Add Event in Calendar 1. The use case begins when user right clicks a Calendar Cell. 2. The calendar cell displays a list of alternatives that are available for the user to choose. The user selects "Add Event" 3. An empty event is created and shown in the calendar cell that the user selects. 4. User enters an event name. 5. (Change Priority) UC-08 is performed (optional). 6. User selects an event starting time. 7. User selects an event due date 8. User enters a detailed description of events, e.g., location of event and participants of event. Users may choose to skip this step. 9. User presses "save" button to save event. 10. Event name, starting time, due date, and optional description such as priority, location and participant are recorded and displayed on the To-Do list. 11. The Use case ends successfully.
Alternative Flow	**A 1: Missing due date** In both case 1 and case 2, the user is required to select a due date. If due date is not given by user, then 1. The use case ends with a failure condition, user will have to redo all the step.
Use Case Associations	UC-05
Priority	High

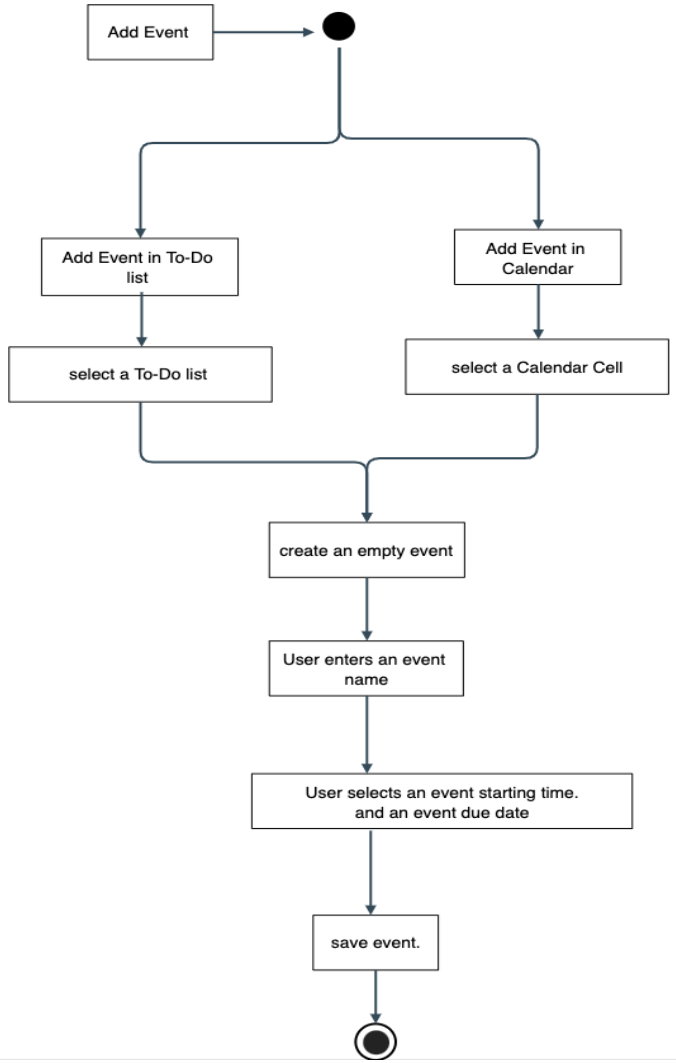
Use case

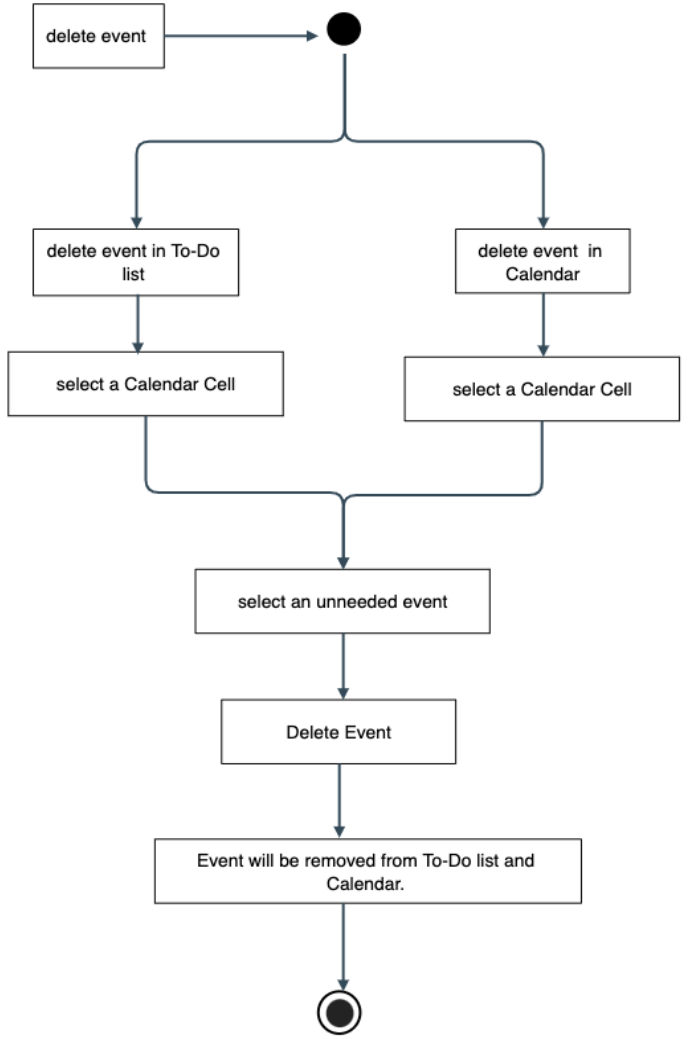
Use Case ID	UC-06
Use Case Name	Sort by priority
Actors	Users
Use Case Overview	It allows the user to organize their task by priority.
Trigger	The user wants to sort their events by priority.
Precondition	1. At least two events are added before using sort function
Normal Flow	1. The use case begins when the user selects To-do List. 2. The user clicks “Sort” button. 3. The To-do list displays two options available. The user selects “priority”. 4. Events are sorted by priority. 5. The use case ends successfully.
Use Case Associations	UC-07
Priority	High

Class diagram



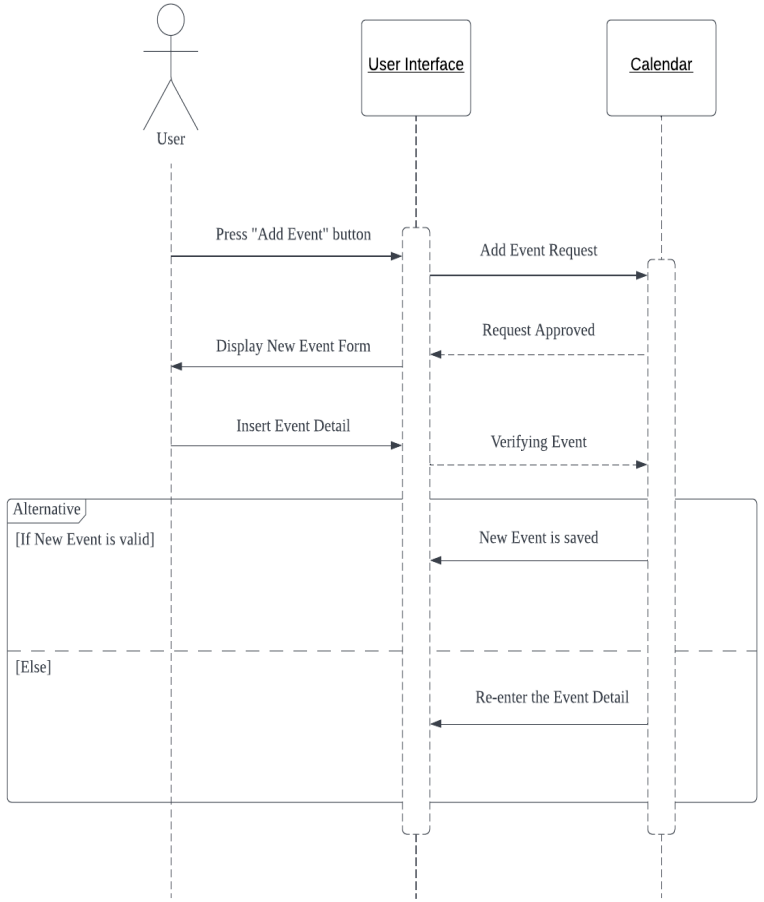
Activity diagram



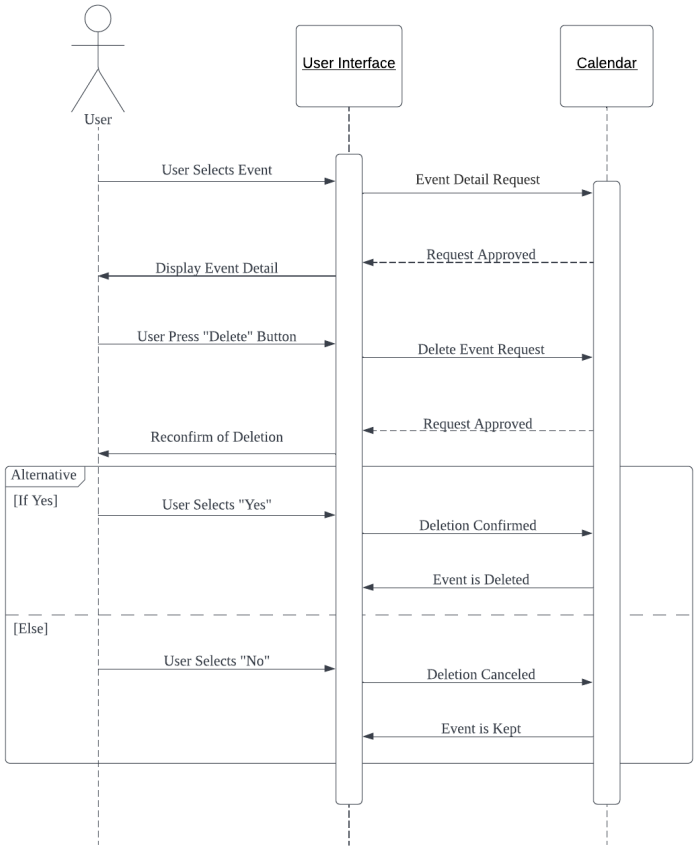


Sequence diagram

Add event



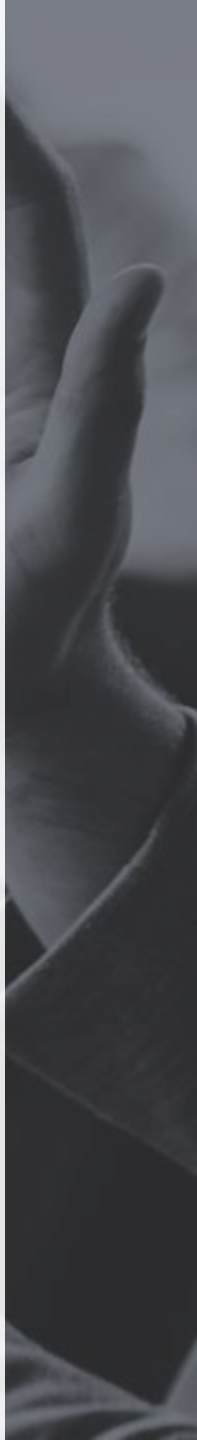
Delete event

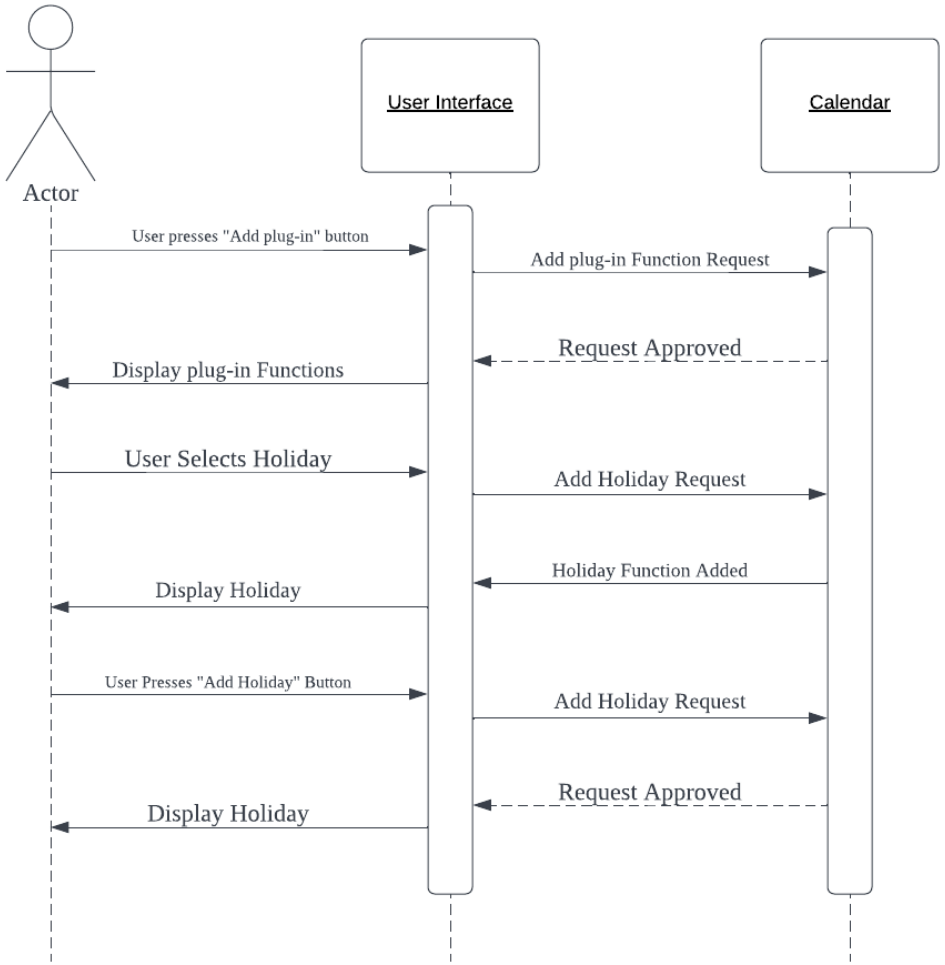


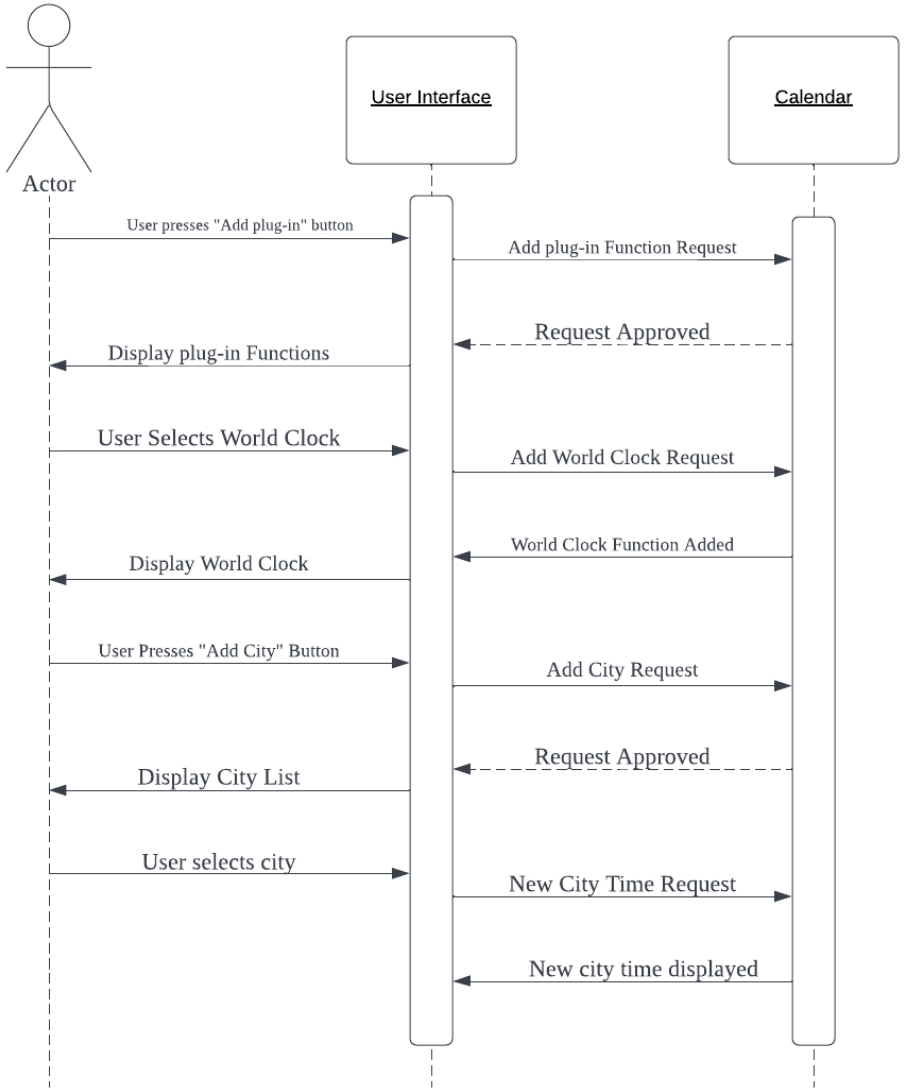
References

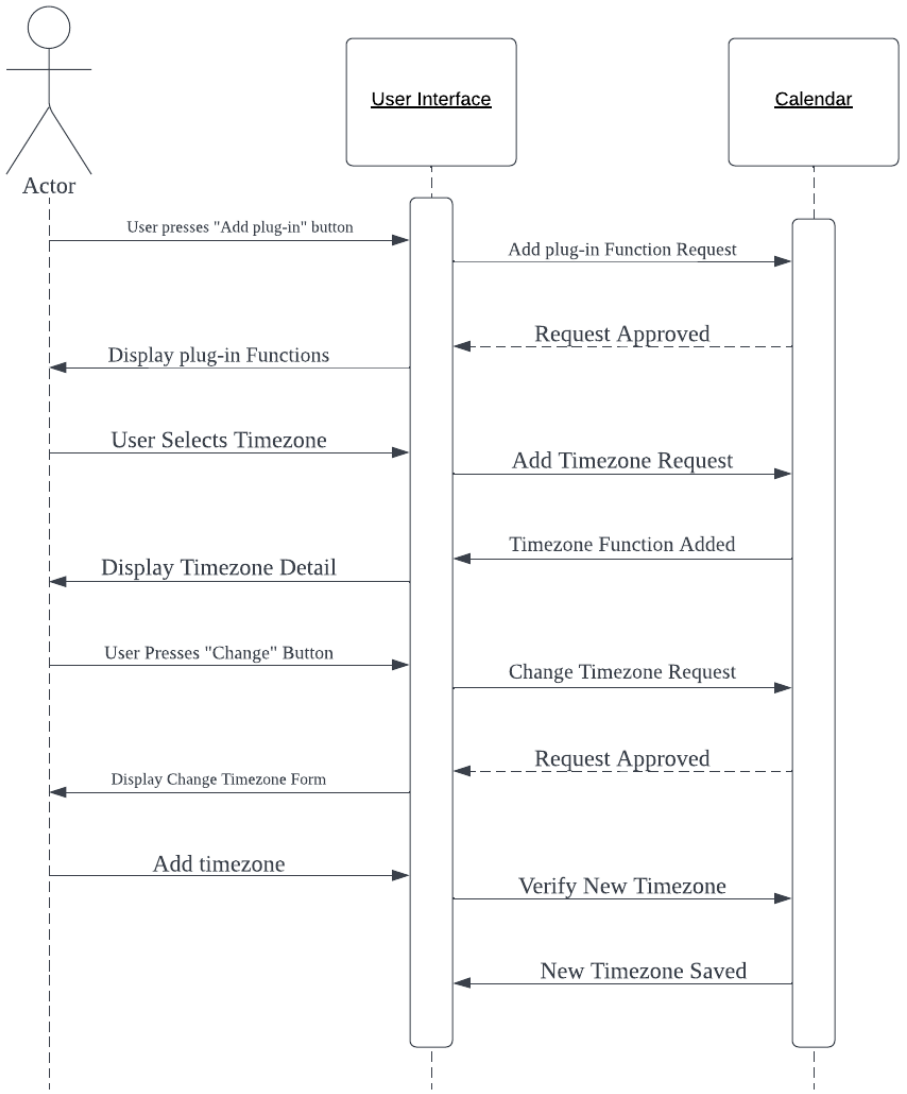
- Plugin Example: https://craftcms.com/docs/3.x/plugins.html#the-plugin-store
- Calendar View Example: https://www.geekwire.com/2015/app-of-the-week-as-microsoft-sunsets-sunrise-this-pricey-calendar-app-is-the-smartest-replacement/

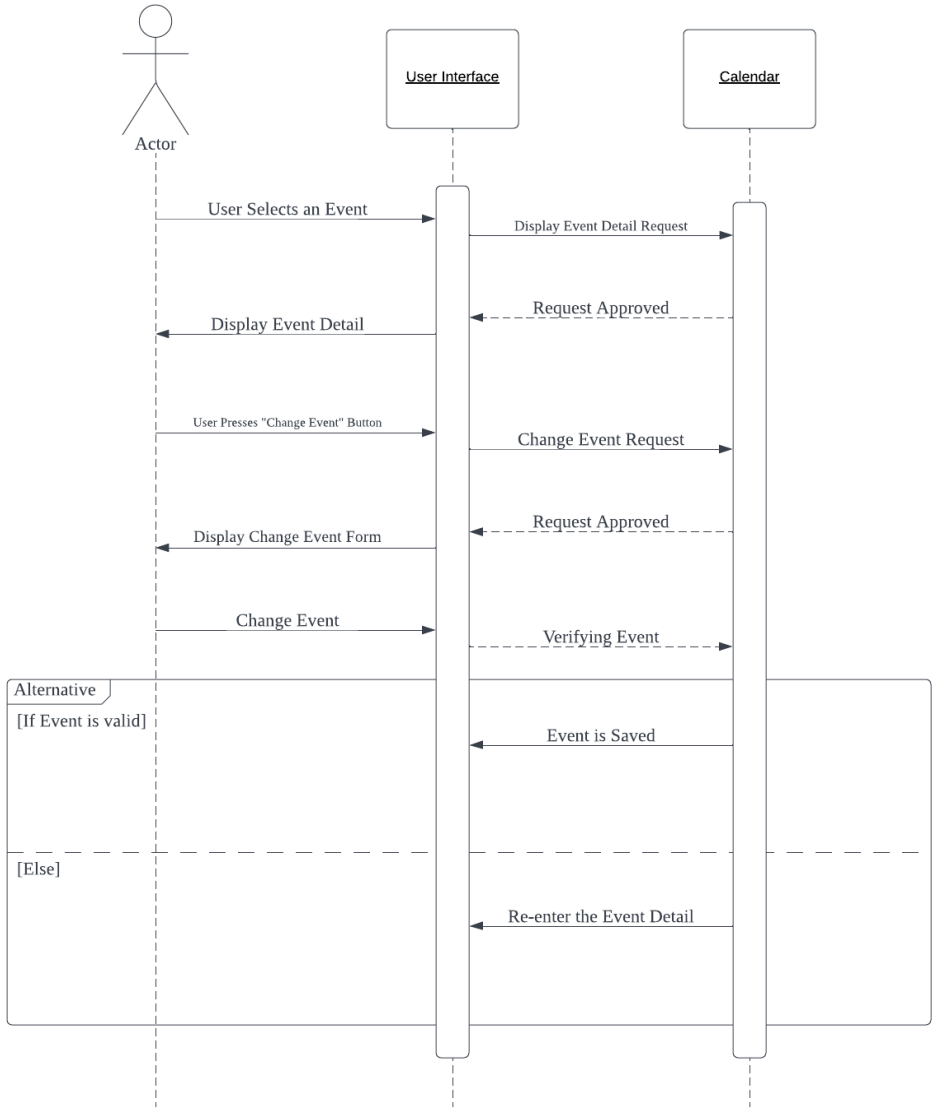
Thank you for listening.

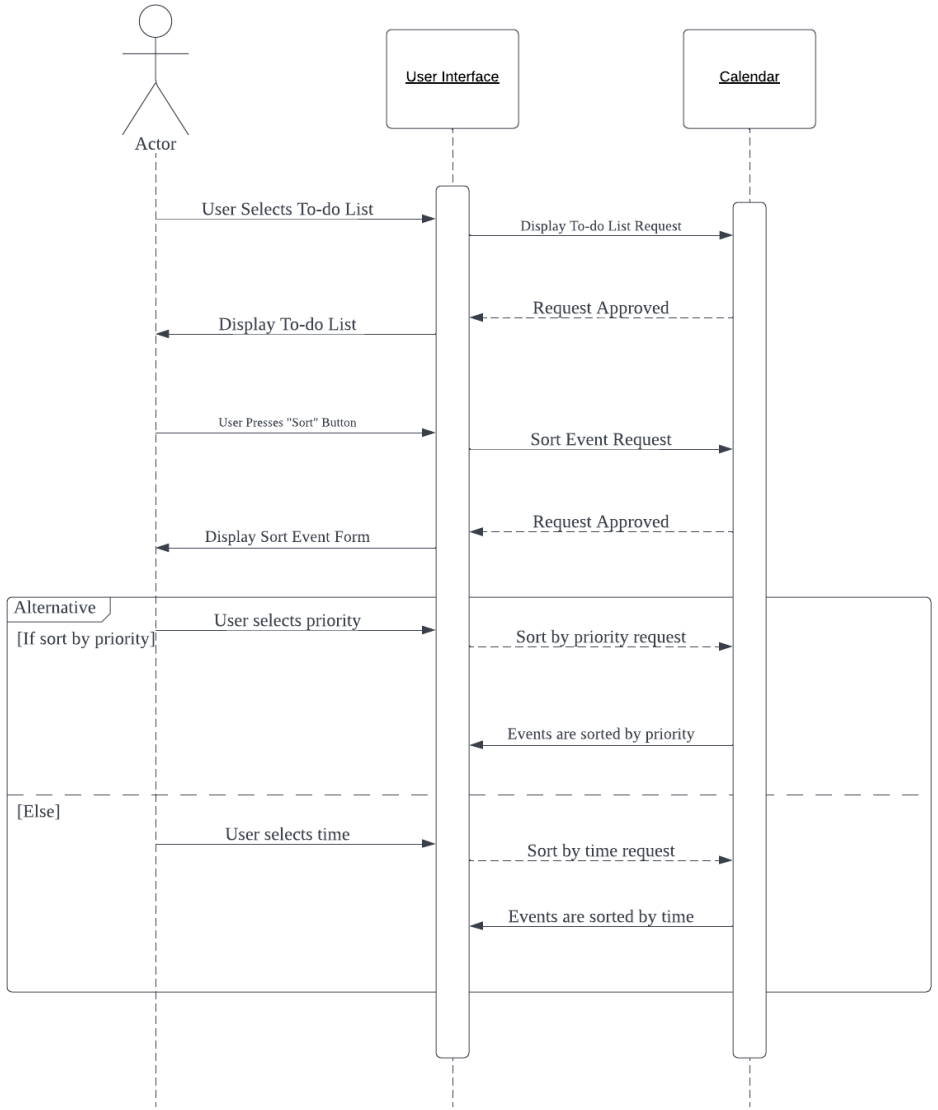


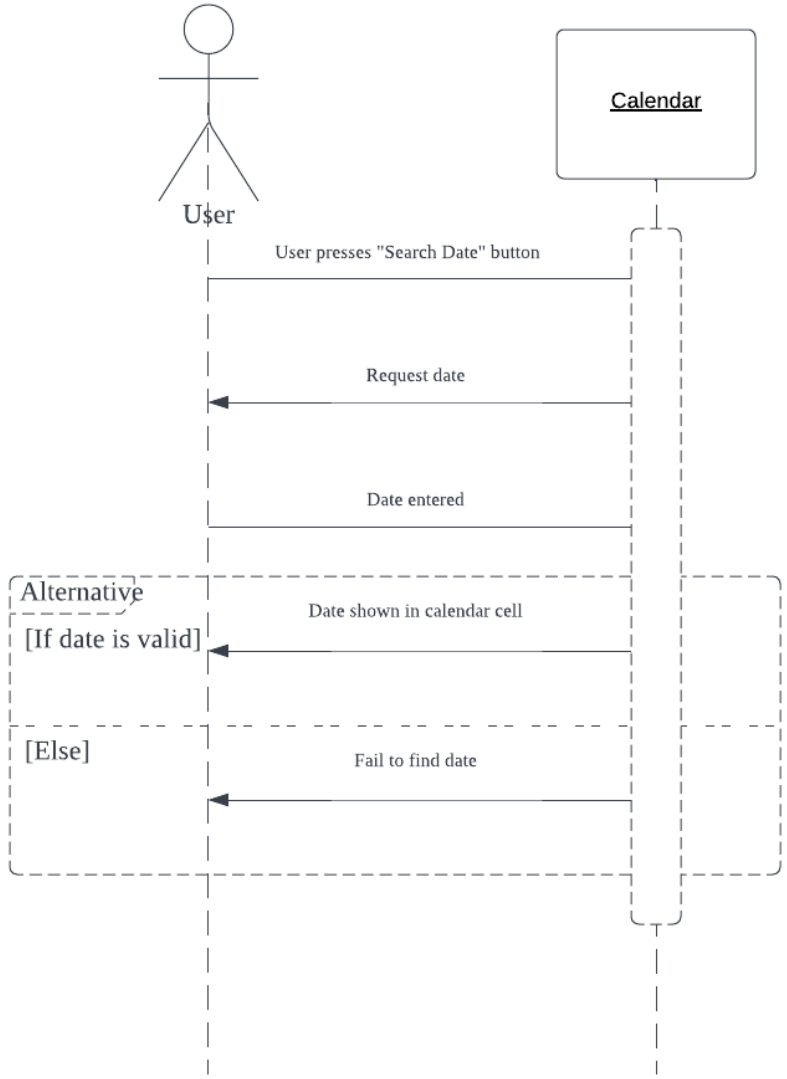

Actor
User Interface
Calendar
User presses "Add plug-in" button
Add plug-in Function Request
Request Approved
Display plug-in Functions
User Selects Holiday
Add Holiday Request
Holiday Function Added
Display Holiday
User Presses "Add Holiday" Button
Add Holiday Request
Request Approved
Display Holiday


Actor
User Interface
Calendar
User presses "Add plug-in" button
Add plug-in Function Request
Request Approved
Display plug-in Functions
User Selects World Clock
Add World Clock Request
World Clock Function Added
Display World Clock
User Presses "Add City" Button
Add City Request
Request Approved
Display City List
User selects city
New City Time Request
New city time displayed


Actor
User Interface
Calendar
User presses "Add plug-in" button
Add plug-in Function Request
Request Approved
Display plug-in Functions
User Selects Timezone
Add Timezone Request
Timezone Function Added
Display Timezone Detail
User Presses "Change" Button
Change Timezone Request
Request Approved
Display Change Timezone Form
Add timezone
Verify New Timezone
New Timezone Saved


Actor
User Interface
Calendar
User Selects an Event
Display Event Detail Request
Request Approved
Display Event Detail
User Presses "Change Event" Button
Change Event Request
Request Approved
Display Change Event Form
Change Event
Verifying Event
Alternative
[If Event is valid]
Event is Saved
[Else]
Re-enter the Event Detail


Actor
User Interface
Calendar
User Selects To-do List
Display To-do List Request
Request Approved
Display To-do List
User Presses "Sort" Button
Sort Event Request
Request Approved
Display Sort Event Form
Alternative
[If sort by priority]
User selects priority
Sort by priority request
Events are sorted by priority
[Else]
User selects time
Sort by time request
Events are sorted by time


User
Calendar
User presses "Search Date" button
Request date
Date entered
Alternative
[If date is valid]
Date shown in calendar cell
[Else]
Fail to find date