Functional Requirements

1. The application shall allow the user to view a given year one month at a time (monthly view)
2. The application shall allow the user to view a given month one week at a time (weekly view)
3. The application shall allow the user to view all events in a day, from earliest to latest (daily view)
4. The application shall allow the user to add an event with starting and ending time
5. The application shall allow the user to set alerts (in the form of toast notifications), along with a selection of times to schedule the alert
6. The application shall allow the user to choose from a selection of pre-defined themes for the calendar application
7. The application shall allow the user to sort events into custom categories
8. The application shall allow the user to search for events
9. The application shall allow the user to select a time for alerts to be set to
10. The application shall allow the user to edit any user-defined events
11. The application shall allow the user to schedule a user-defined event
12. The application shall allow the user to delete a user-defined event
13. The application shall allow the user to view an agenda of future events, from either built-in events, user-defined events, or both
14. The application should check for conflicting times for user-defined events
15.

Definitions, Abbreviations, Acronyms

1. Event: Two kinds of events; built-in and user-defined.
   a. Built-In: National holidays such as Halloween, Thanksgiving, Martin Luther King Jr. Day, etc.
   b. User-Defined: Events that are scheduled by the user, such as birthdays, meetings, etc.
2. Toast Notification: An alert will potentially take the form of a toast notification, which are the notifications that the Windows operating system pops up in the lower corner of the monitor.

Use Case Diagram

Calendar

Request Alarm

<<Include>> Set Time

View Month

View Week

View Day

Search For Event

Edit Event <<Include>> Repeat Event

<<Include>>

Update Event List <<Include>> Create Event <<Include>> Check for Conflicts

<<Include>>

<<Include>>

View Agenda
(View Events)

Delete Event

Select Theme

User