

## **Calendar Website Brainstorm (Webpage requirements)**

User:

- User must create account to access calendars
- User can manage Username and Password
- User can CRUD personal Calendars and Events
- User can share calendars with other users via username to grant viewing access

Calendar:

- Calendars can only be accessed by users who have been granted permission
  - Calendar can be viewed (not edited) by other users who have been granted permission
- Calendar can only be updated by creator
  - Updates include:
    - edit calendar name
    - share calendar
    - edit permissions
    - delete calendar
- Once calendar has been deleted no users can access it

Event:

- Multiple events can be created for the same time slot
- Event can still be edited once it has expired
- Event can be viewed by user who has access
- Events can only be created and edited by creator
  - Updates include:
    - edit event name
    - edit the calendar to which event belongs to
    - edit event date
    - edit event start time
    - edit event end time
    - add notes

## **ERD Documentation**

### **Entities**

User:

- identified by userID (Primary Key)
- has username and password

Calendar:

- identified by calendarID (Primary Key)

- uses userID (Foreign Key) of the calendar creator
- has calendarName

Event:

- identified by eventID (Primary Key)
- uses calendarID (Foreign Key) of the calendar that event belongs to
- has eventNotes, startTime, endTime, and eventName

Permission:

- identified by userID and calendarID combination (Primary Keys)
- Defines the permission of the user to use a specific calendar

### Relationships

- User has access to created calendars, one user can have many calendars
- One calendar can have multiple events
- User has an associated set of permissions that defines what calendars the user has access to
- One permission associates a single user with a single calendar

### UI Wireframe

Each page is titled what it is modeling. Features are color-coded by functionality.

Blue = static

Red = button

Green = editable field