Blackboard Calendar Project Requirements

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1. Events will have a title, a date on which they occur, an optional duration, and an optional description.
    1.1. The user can create personal events.
        1.1.1. The user must enter the date at which the event occurs.
        1.1.2. The user may specify a duration for the personal event.
        1.1.3. The user may specify if the event repeats.
    1.2. The user can delete personal events they have created.
    1.3. The user can edit the attributes of existing personal events.
2. Calendars will have a title, and a color.
    2.1. A calendar's title must be unique.
    2.2. Classes contain events.
        2.2.1. The event's title must be unique in a calendar.
    2.3. A personal calendar will be automatically created for the user.
        2.3.1. Events created by the user are assigned to this calendar by default.
    2.4. The user can create calendars.
        2.4.1. The user may add new events to calendars they have created.
    2.5. The user may delete calendars they have created.
        2.5.1. Upon deletion, the calendar's events will also be deleted.
            2.5.1.1. The user may transfer events from the calendar before it is deleted.
    2.6. The user can change the attributes of existing calendars.
    2.7. The user can transfer events from one calendar to another.
    2.8. Class calendars will be automatically created for each class the user is taking.
        2.8.1. Class events are created in the class calendar for each assignment the class has.

            2.8.1.1.   Class events have additional submission, completion, and grade attributes.

      2.8.2.   The user cannot change any attributes of a class calendar, or its contained class events, except for the class calendar's color.

3.   The user can set notifications that are sent to the user to remind them of any upcoming event.

    3.1.   The user can specify whether they are delivered via email, text message (SMS), or both.

    3.2.   Notifications can be enabled or disabled based on chosen calendars or individual events.

    3.3.   The user can change the amount of time prior to the event or the assignment they will be notified.

    3.4.   The user can create repeating reminder notifications.

      3.4.1.   The user will specify the amount of time between repeating reminders.

4.   The user can export calendars.

    4.1.   The user can save a file or print a copy of the currently displayed calendars.

      4.1.1.   The user can select certain days or months to export.

      4.1.2.   The user can specify and filter which events to include.

5.   The main calendar display consists of the visual components that the user will be able to view.

    5.1.   The main calendar display shows every day of the current calendar month by default.

    5.2.   The main calendar display shows the name of the current month.

    5.3.   The user can choose between three display modes- daily, weekly, and monthly.

      5.3.1.   Daily mode displays an hourly view of the currently selected day.

      5.3.2.   Weekly mode displays the days of the currently selected week.

      5.3.3.   Monthly mode provides a simultaneous view of every day of the current calendar month.

    5.4.   The user can toggle which calendars are displayed.

    5.5.   The main calendar display presents events at the time at which they occur.

      5.5.1.   Events may also display additional information about themselves.

5.5.2.   Class events marked as submitted are displayed differently from unsubmitted class events.

5.5.3.   Graded assignments display their grades in the calendar.

    5.5.3.1.   The user can show or hide displayed grades of graded assignments.

5.5.4.   The user can filter the displayed events by one or more criteria.

    5.5.4.1.   The user can hide finished class events upon completion.

5.5.5.   The main calendar display will automatically update and refresh based on changes made to events and assignments, including creation and deletion.

5.5.6.   The user can navigate between different dates on the calendar.

5.5.7.   The main calendar display will dynamically change its display proportions based on the current resolution.