User Table

Description: Stores information about the user as well as the user's OAuth token

User (UserID, Email, Name, GoogleUserID)

Column name explanations

- Email: the user's email
- Name: user's name
- GoogleUserID: The Id used to connect with the user's google calendar.

Membership Table

Description: Enables finding the group calendars a user is a part of and the users that are a part of each group calendar, as well as which personal calendars they are sharing. This table helps normalize the relationship between a user, their personal calendars, and group calendars they join.

Membership (MembershipID, GroupCalendarID, UserID)

- Foreign Key GroupCalendarID references GroupCalendar
- Foreign Key UserID references User

Group Calendar Table

Description: Keeps track of a group of personal calendars for compare with back end code.

GroupCalendar (GroupCalendarID, Name, Timezone)

Column Name Explanations

- Name: Human readable name of the group calendar
- Timezone: Timezone the calendar is displayed in

Personal Calendar Table

Description: Enables finding the Google calendars associated with each user in a group

PersonalCalendar (PersonalCalendarID, MembershipID, GoogleCalendarID)
- Foreign Key MembershipID references Membership

Column Name Explanations

- GoogleCalendarID: The ID for the Google Calendar that we will access using Google's API

Events Table

Description: The events that are added to a calendar - synchronized from Google Calendar regularly

Events(EventID, Name, Start, End, PersonalCalendarID)
- Foreign Key PersonalCalendarID

Column Name Explanations

- Name: Name of the event
- Start: Start of the event (as a timestamp with time zone)
- End: End of the event (as a timestamp with time zone)

Session Table

Description: Stores the session information for a single user authentication.
Session(SessionID, UserID, StartTime, LastActive, ExpiryLength)
- Foreign Key UserID references User

Column Name explanations
- StartTime: The time the user logged in for this session
- LastActive: The last time the user was active in the application
- ExpiryLength: The duration of time following LastActive for which the session is still valid