Team Name: Irrational Grunting (IGRU)

Team Number: 103-5

Team Members:

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Revised List of Features

1. Calendar View
   a. A grid view of all of the events that can be viewed at a week at a time. These events will be chronologically placed in the grid based on time and date.
   b. As an extension to this, we will be able to export a user's calendar to services such as Google Calendar.
2. Nav Bar
   a. This will allow the user to navigate between the different pages of the website.
3. Add Event button
   a. Button for the user to add an event, opens a new page for the user to enter information about their event including: name, time, date, location, description, etc. and then adds the event to the list
   b. All events will be approved by an admin before they become publicly visible.
4. Event descriptions/links to websites
   a. Every event will be able to be clicked to display more information about it past the simplified information that can be seen from the searching screen.
   b. It will also, assuming they are provided, display links to where to get more information.
5. Login
   a. A user login page asking for a username and password in order for a user to log into their account
   b. There will also be an option to continue as a guest, which prevents saving and adding events.

6. Saved events
    a. A button to save events to be viewed later by the user
    b. Saved events will be viewable/removable from the calendar view page.
7. Notification bell
    a. When someone saves events they will be notified via email about the upcoming event.
8. Search Bar
    a. There will be a bar at the top of the page that allows the user to search for certain events by keyword or by name. It will search while the user is typing, and display the related events below the search bar.
9. Filter
    a. This feature will allow the user to set filters to the search in order to help find specific events or event categories.
    b. There will be a list of tags that will be applied to every event. When the user selects a tag(s) it will only display events with that tag.
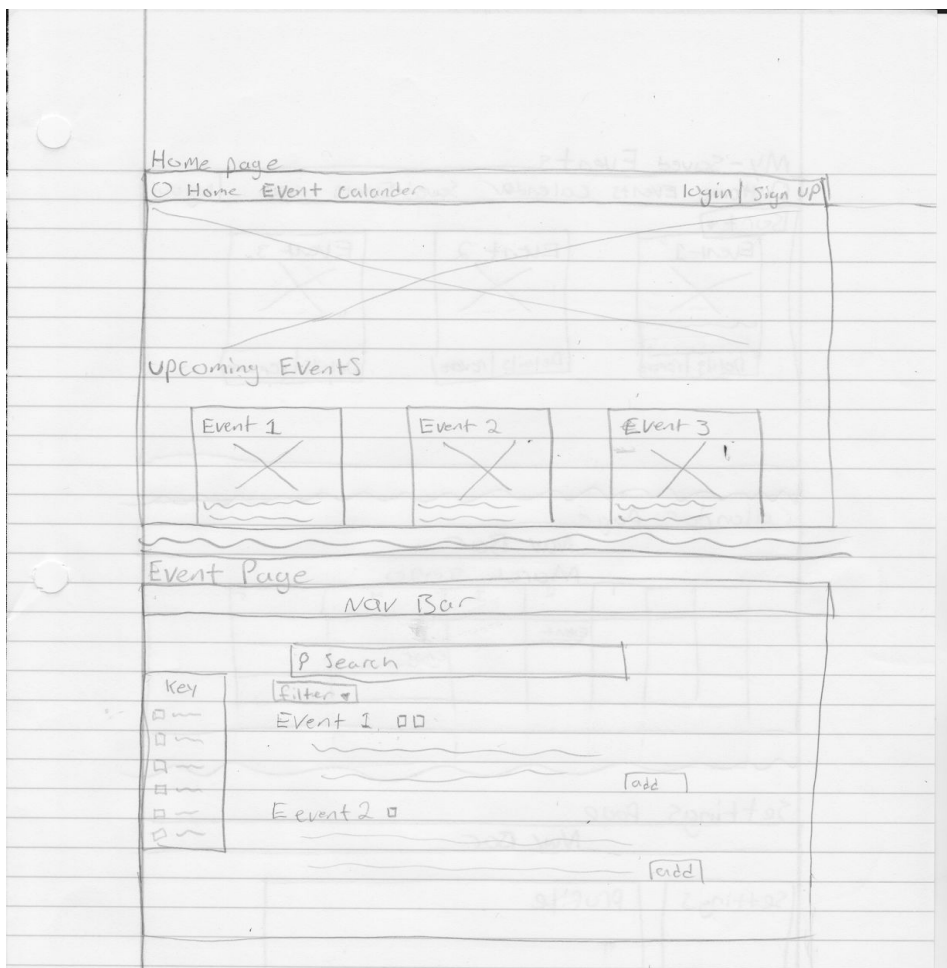10. Add to google calendar
    a. There will be an option to take the saved events from the calendar view and move them to your google calendar.

Architecture Diagram
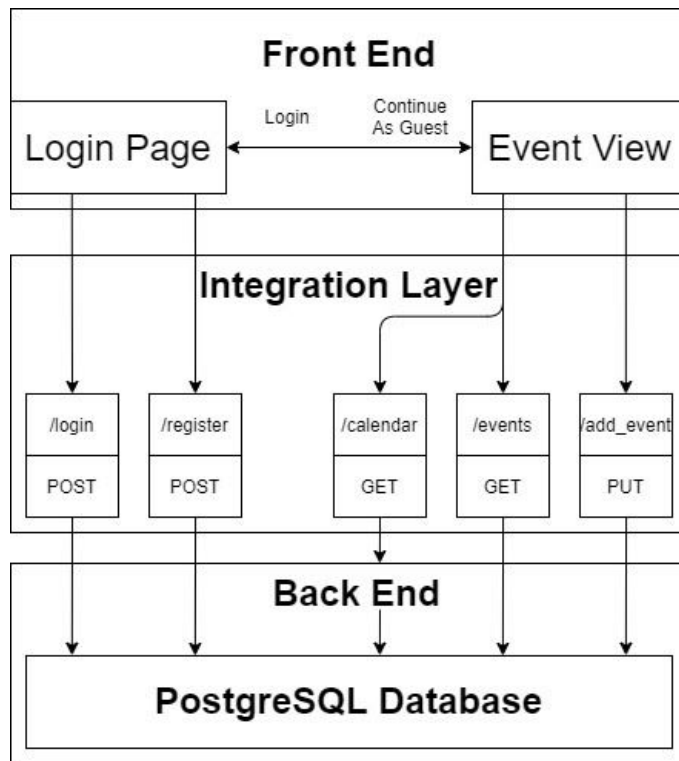
Front End Design
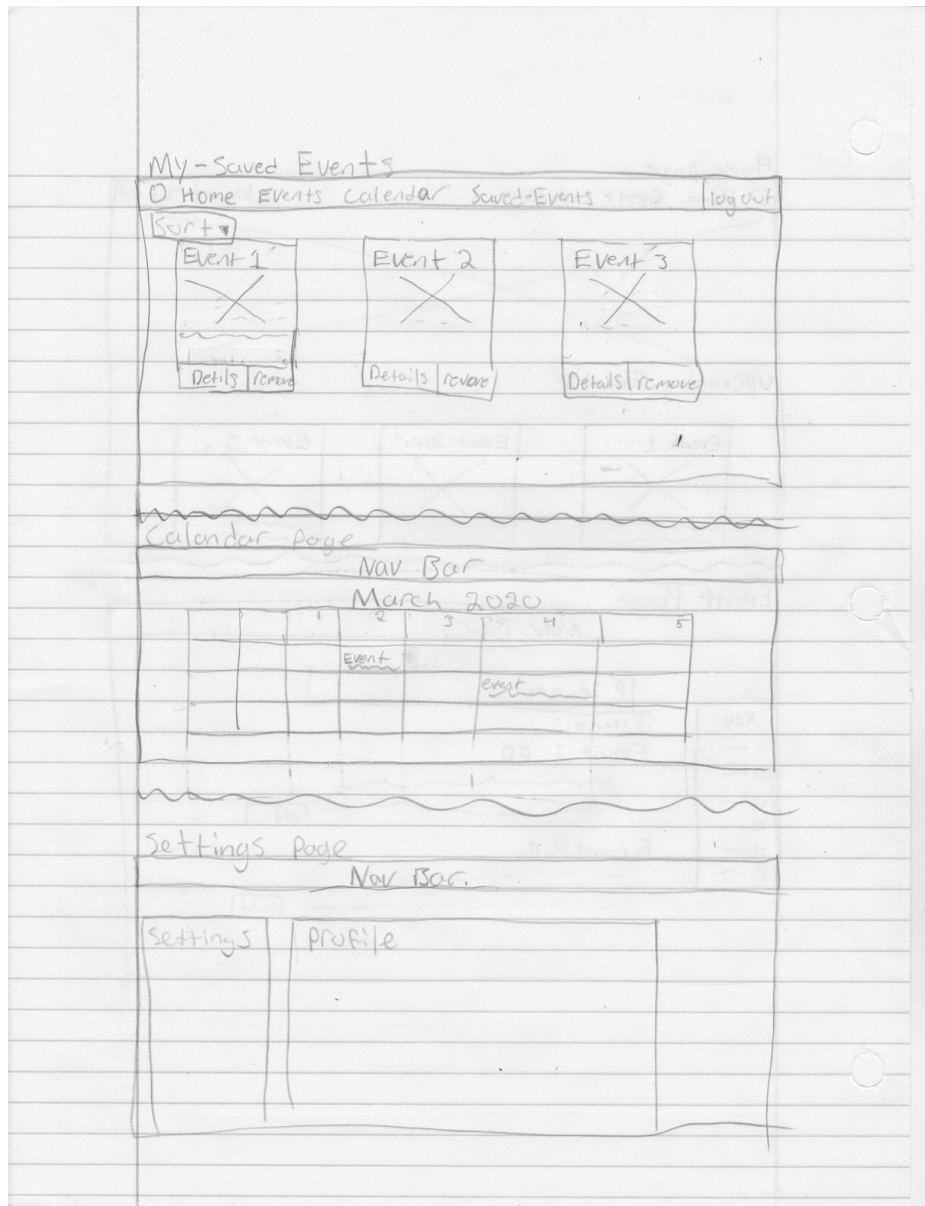
Web Service Designs

As a stretch feature, we will possibly be using Google Calendar's API in order to save events from our database into a user's personal Google Calendar. We can connect to the API with javascript and use Google's events.insert() method in order to add an event to a user's calendar.

https://developers.google.com/calendar/create-events

Database Design

Irrational Grunting Event Calendar
Using PostgreSQL

event

PK	eventId: INT
	name: TEXT
	startTime: TIMESTAMP
	date: TIMESTAMP
	location: TEXT
FK1	contact: TEXT
	attribute: INT
	maxSize: INT
FK2	organizationId: INT
	currentAttending: INT
	description: TEXT

archive

PK	archiveID: INT
FK1	eventID: INT
	eventCount: INT
	lastUpdate: TIMESTAMP

organization

PK	organizationId: INT
FK1	contact: TEXT
	orgName: TEXT
	upcomingEvents: INT

user

PK	userId: INT
FK1	userEmail: TEXT
	firstName: TEXT
	lastName: TEXT
	password: TEXT

savedEvent

PK/FK	userId: INT
PK/FK	eventId: INT
	userEmail: TEXT
	timeSaved: TIMESTAMP

settings

PK	userId: INT
	option1: int
	option2: TEXT
	option3: BOOL