Meet & Cheese



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Overview & Purpose

Quick Overview

- Meet & Cheese is a meeting scheduler app.
 - Finds your availabilities, so you don't have to.
 - Allows you to create and join meetings.
 - See the availabilities of others
- Uses the MERN stack, Google Calendar API, and FullCalendar

Purpose

- Most scheduling websites are difficult and confusing to navigate:
 - They do not display your availability.
 - Requires a lot of manual input.
- Meet & Cheese automates planning meetings:
 - Finds the intersections of your events to retrieve your availability.
 - Simple, easy to use.

Target Users

- Students:
 - Clubs, organizations, study groups, etc.
- Businesses
- Employees
- Anyone!

02

Basic Features

Basic Features

- 1. Display dynamic data.
- 2. Upload data from client to back-end
- 3. Search through server side data

Displaying Dynamic Data

- Calendar (specific to the user):
 - Availability (intersections of Google Calendar events)
- Meetings List (specific to the user):
 - Created meetings
 - Joined meetings
- Meeting page (specific to the meeting):
 - Organizer and participants emails
 - Availability of all members
 - Changes as more users join / leave.

Upload data from client to back-end

- User Data:
 - User ID (Google email address)
 - All meetings (meeting IDs)
 - Created meetings (meeting IDs)
- Meeting Data:
 - Meeting ID
 - Meeting name
 - Organizer ID
 - Meeting member IDs
 - All members' availabilities

Search through server side data

Meetings List page:

- Search by user email.
 - Look up emails in the search bar to find all meetings you both have in common.
- Created Meetings.
- Joined Meetings.

03

Distinct Features

Distinct Features

- 1. Create, share, and join meetings.
- 2. Availability finding algorithm.
- 3. Modify your loaded availability.
- 4. Send Google Calendar meeting invites.
- 5. Delete/leave meetings.

Create & Join Meetings

- Create meetings for others to join.
 - Meeting creator can load/modify their availability.
 - Share a unique meeting link with others.
 - Organizers can confirm and set a meeting time.
 - Drag on calendar page to create the meeting.
- Join a meeting.
 - Members can join an existing meeting.
 - Can load and modify their availability
 - Cannot can confirm or set a meeting time.

Availability Finding Algo.

- We display when you're free, not when you're busy.
- Intersection Find:
 - Finds the common availability of all users in a meeting
 - Intersection of complements of event times
 - Intersection of the above across all users

Modify Loaded Avail.

Upon loading in your availability...

- Drag, resize, and set time-constraints on your loaded availability.
 - Drag an availability to a different time and/or date.
 - Resize the start and/or end times of an availability.
 - Set time-constraints for all of your availability.
- Click availabilities to save them, or click again to unsave.
 - Saved availability is what's displayed to other members.
- Revert changes button.
 - Reset all availabilities back to its original state.

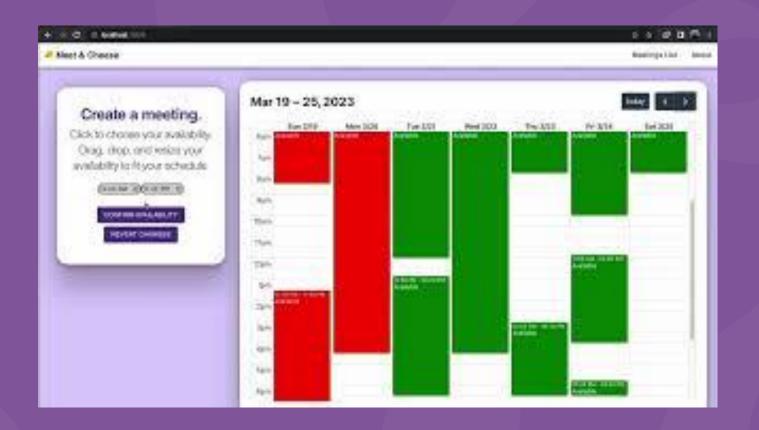
Send Google Calendar Invites

- Finalize a meeting.
 - Only organizers can confirm a meeting time.
 - Drag to create the meeting event
 - Set a title and description for the meeting.
- Send a Google Calendar invite to all participants
 - Clicking "Confirm Meeting"
 - Updates all users' calendars with the meeting time, title, and description

Delete leave Meetings

- Inside of "Meetings List" page, users can can delete meetings.
 - Created Meetings (delete):
 - Deletes meeting completely.
 - Members who joined will no longer see the meeting.
 - Joined Meetings (leave):
 - Deletes meeting for the user.
 - Removes the user, and their availability, from meeting.
 - All other members still see the meeting.

O4 Demo



*Technical Details

Calendar Availability Events

- In order to display and save availabilities, each availability:
 - Has a unique ID, generated with UUIDv4
 - Without this, impossible to determine who owns a specific availability (for the Meeting page)
 - Saved in an array, containing start/end time, and a user ID.
 - Without this, impossible to remove users' from meetings for the deleting/leaving feature (for the Meeting page)
 - Stored as an "event" in order to be displayed by FullCalendar

Calendar Availability Events

- To handle saving, resize, drag & drop, resizing, time constraints, and displaying tooltips, created these callback functions to be used after a trigger:
 - handleEventDrop, handleEventResize, handleMouseEnter, handleStartChange, handleEndChange...
 - Does it's task and also updates the "Saved" array

Delete | Leave Meetings

- On the list meetings page, users also have the option to "trash" a meeting
- No thought has to be put into choosing whether that means leave or delete the meeting, since the website does the thinking for you
- The design choice for deleting a meeting required some thought, since the reference to the meeting had to be deleted from every user who was a part of it



Thanks!

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