



## **A Bee-Themed Student Group Work Helper**

*Developed By: Javier Huang*

<https://buzby.pages.dev/>

# Code Structure

**SvelteKit Frontend**

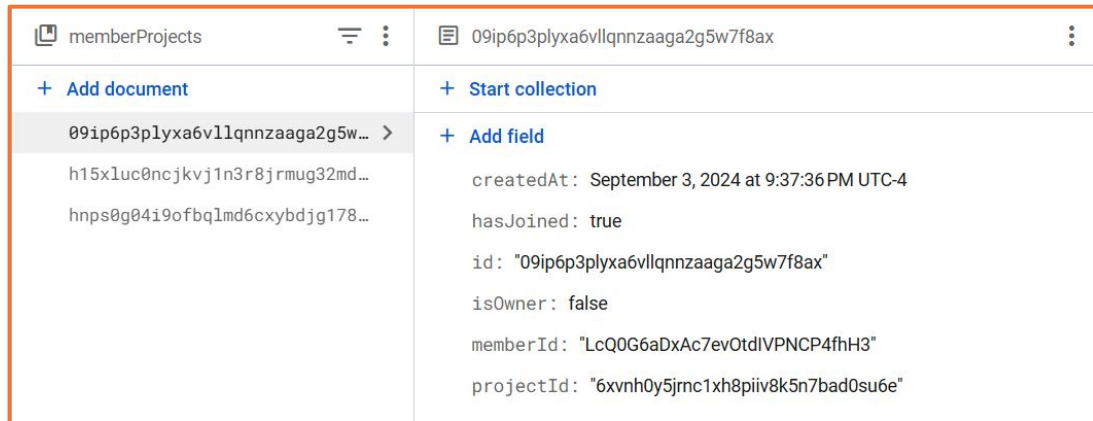
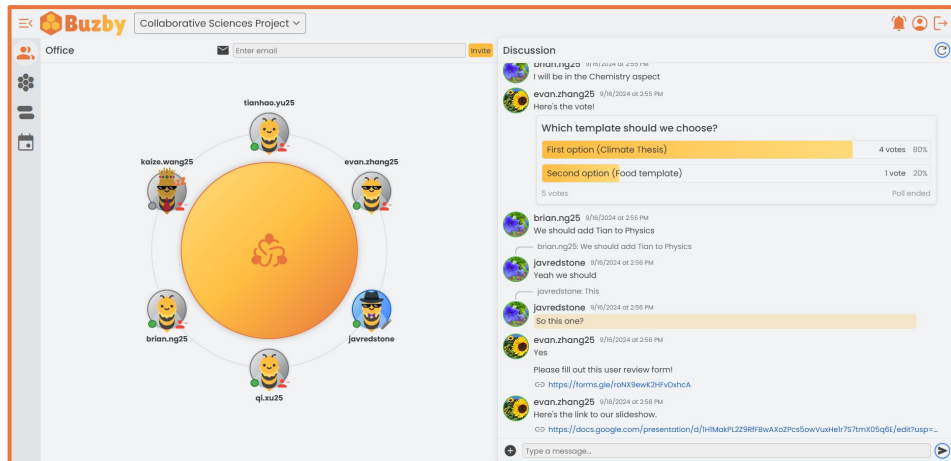
100% Custom Styling  
and Design

Request

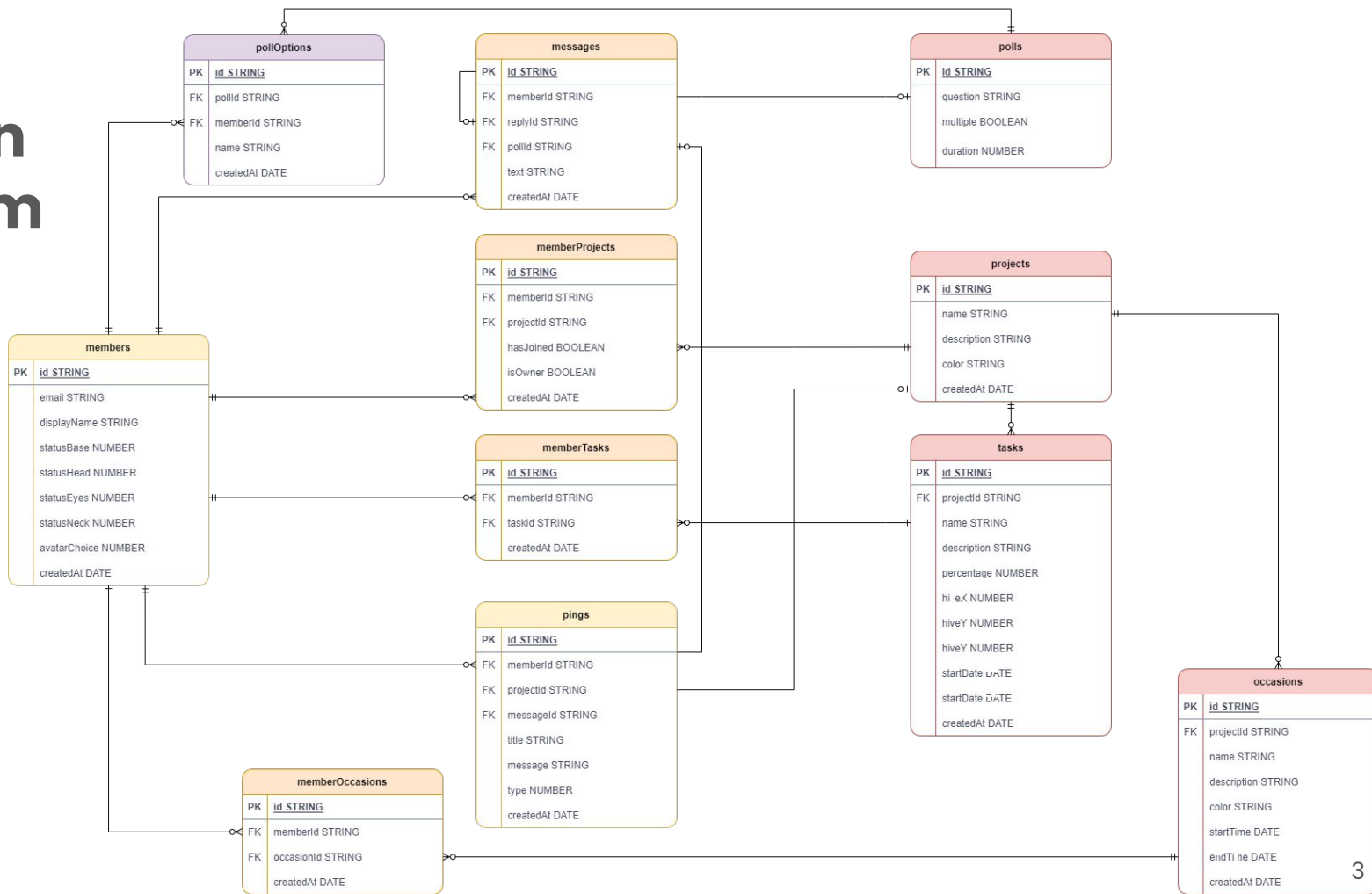
Response

**Firebase Firestore**

Online Cloud  
Database +  
Authentication API



# Entity Relation Diagram



# Home Page

The student can create a project and invite others to join, and make changes to it.

The screenshot displays the Buzby Home Page interface. At the top left is the Buzby logo and an 'Overview' dropdown menu. A '+ Create Project' button is located in the top left corner. The main content area is divided into two sections: 'Projects' and 'Requested Projects'. The 'Projects' section features a card for the 'Collaborative Sciences Project', which includes details like 'This is for our Grade 12 Collaborative Sciences Project (CSP)', '6 members joined', '0 pending members', and the creator's name 'javedstone'. A 'Go to project' button is at the bottom of this card. The 'Requested Projects' section shows a message: 'No requested projects found. Receive a request to join a project!'. A large orange callout box titled 'Creating New Projects' is overlaid on the right side, showing a form with fields for 'Project Name', 'Project Description', and 'Member emails', along with a color selection bar and 'Create' and 'Cancel' buttons. A second orange callout box titled 'Project Editing / Invitation / Deletion' is overlaid at the bottom, showing a project card with icons for adding members, editing, and deleting, along with 'Save' and 'Cancel' buttons. Arrows point from the 'Go to project' button and the 'Creating New Projects' callout to the 'Project Editing / Invitation / Deletion' callout.

**Creating New Projects**

**Project Editing / Invitation / Deletion**

# Office Page

## Inviting Members

Office

Enter email

Invite

Discussion

brian.ng25 9/16/2024 at 2:55 PM  
I will be in the Chemistry aspect

evan.zhang25 9/16/2024 at 2:55 PM  
Here's the vote!

Which template should we choose?

|                               |         |     |
|-------------------------------|---------|-----|
| First option (Climate Thesis) | 4 votes | 80% |
| Second option (Food template) | 1 vote  | 20% |

5 votes Poll ended

brian.ng25 9/16/2024 at 2:55 PM  
We should add Tian to Physics

brian.ng25: We should add Tian to Physics

javredstone 9/16/2024 at 2:56 PM  
Yeah we should

javredstone: This

javredstone 9/16/2024 at 2:56 PM  
So this one?

evan.zhang25 9/16/2024 at 2:56 PM  
Yes

Please fill out this user review form!  
🔗 <https://forms.gle/r0kX9ewK2HfVdXhCA>

evan.zhang25 9/16/2024 at 2:58 PM  
Here's the link to our slideshow.  
🔗 <https://docs.google.com/presentation/d/1H1MakPL2Z9RfBwAXo2Pcs5owVuxHelr757tmX05q6E/edit?usp=...>

Type a message...

Students can discuss their project, send attachments, or use polls, as well as monitor each others' statuses.

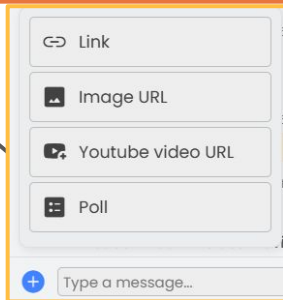
## Chat / Discussion Panel

Member Moderation

Adjusting Avatar



Adding Chat Attachments and Polls



# Hive Page

Buzby Collaborative Sciences Project

Hive

Tasks Overall 66%

Choose slideshow template

Choose a slideshow template

Start: 9/14/2024 at 10:50 PM

End: 9/15/2024 at 12:56 AM

Assigned Members

- javredstone
- brian.ng25
- kaize.wang25

Chem. Aspect

Think about this topic from a chemistry perspective.

Start: 9/15/2024 at 4:12 AM

End: 9/15/2024 at 9:49 PM

Assigned Members

- brian.ng25
- kaize.wang25

Students can create new tasks, assign them to others, monitor them, and get alerted when tasks are still not completed near their due date.

Task List Panel

Creating  
New Tasks

Assigning  
Members and  
Dates

Choose slideshow template

Choose a slideshow template

Assign members

- ☐ tianhao.yu25
- ☐ evan.zhang25
- ☒ javredstone
- ☐ qixu25
- ☒ brian.ng25
- ☒ kaize.wang25

Start date

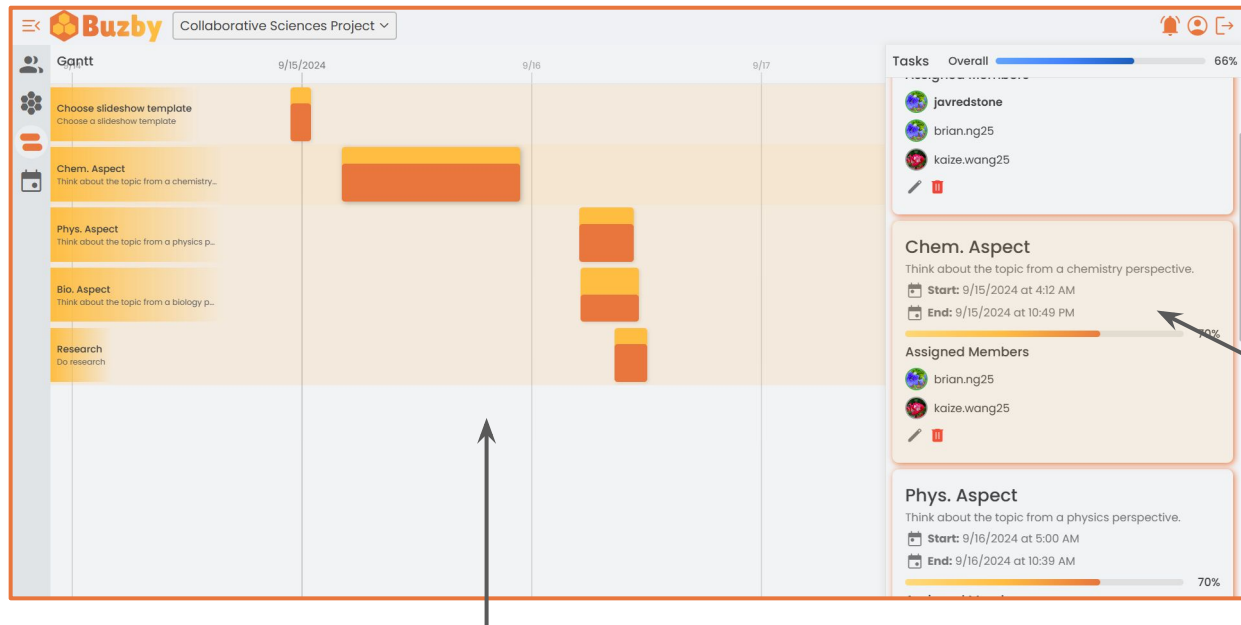
2024-09-14 10:50:22.139 PM

End date

2024-09-15 12:56:01.929 AM

Save Cancel

# Gantt Chart Page



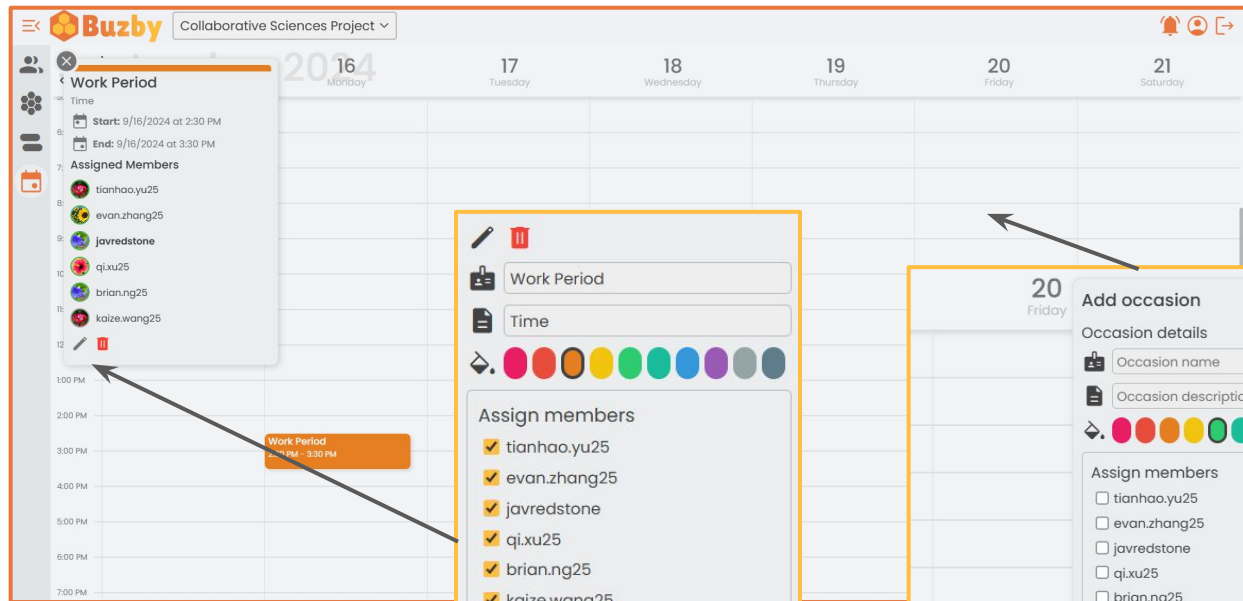
Students can drag tasks around, rearrange them, and monitor them in a timeline-based fashion.

Task List Panel



Tasks Listed and Temporally Ordered

# Calendar Page

Students can set events (occasions) for meetings or important deadlines.




Editing  
Occasions

Work Period



Time





Assign members

- ☒ tianhao.yu25
- ☒ evan.zhang25
- ☒ javredstone
- ☒ qi.xu25
- ☒ brian.ng25
- ☒ kaize.wang25

Start time

 2024-09-16 02:30 PM 

End time


 2024-09-16 03:30 PM 


[Save](#) [Cancel](#)


20 Friday

Add occasion

Occasion details

 Occasion name



 Occasion description





Assign members

- ☐ tianhao.yu25
- ☐ evan.zhang25
- ☐ javredstone
- ☐ qi.xu25
- ☐ brian.ng25
- ☐ kaize.wang25

Start time

 2024-09-20 11:00 AM 

End time

 2024-09-20 12:00 PM 

[Add occasion](#) [Cancel](#)

Creating New  
Occasions +  
Assigning  
Members +  
Times



# Real-World Use

## International Baccalaureate (IB) Collaborative Science Project (CSP)



Buzby has been used and brought to its full potential in a real-life scenario during our International Baccalaureate (IB) Collaborative Sciences Project (CSP), where it was very helpful and made our group collaborate more efficiently.



**Thank you!**