



# ConnectBU

Team 3

Hussain Albayat, Yousuf Baker, Benjamin  
Chan, Nadim El Helou, Damani Philip



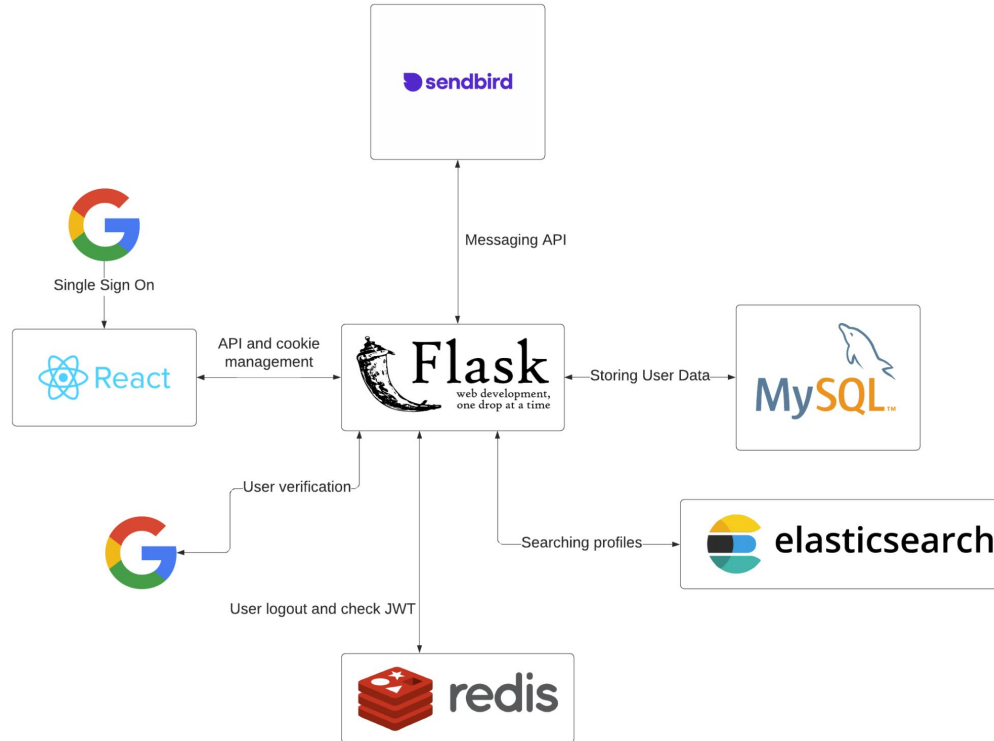
# Problem

BU students lack personalized academic/professional/extra-curricular advising resources. It's difficult to meet other students to ask for advice. Support is often decentralized and up to the student to parse from distributed resources (clubs, faculty, events, etc).

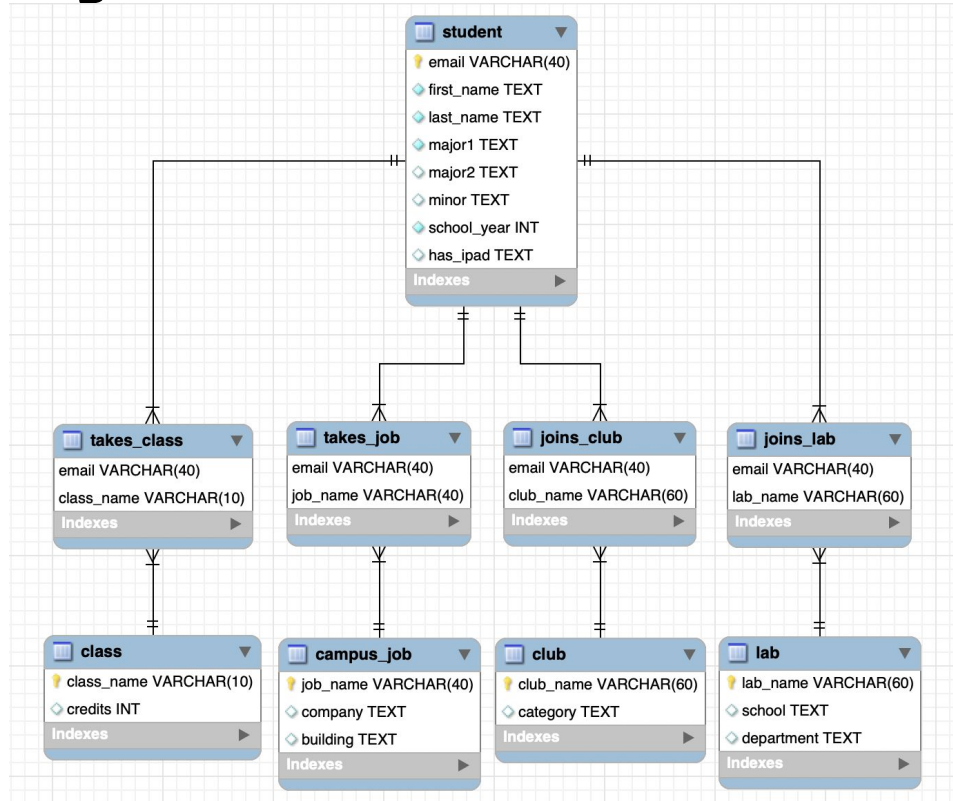
# Solution

- Good News: Very close to our MVP!!
- MVP is our web app that provides a centralized advising experience (cloud based architecture)
  - search for students based on their interest, clubs, classes, majors/minors
  - instant messaging between students
  - securely store user information

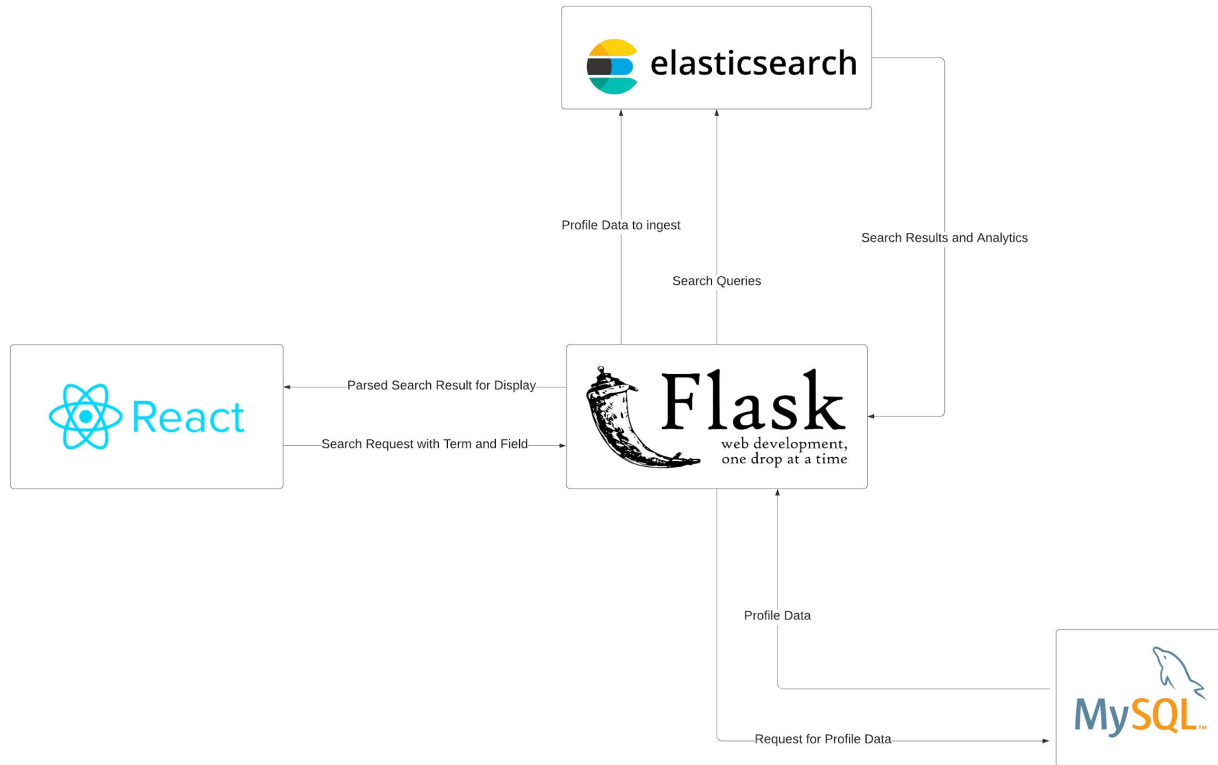
# System Architecture



# Technical Progress: Database Schema

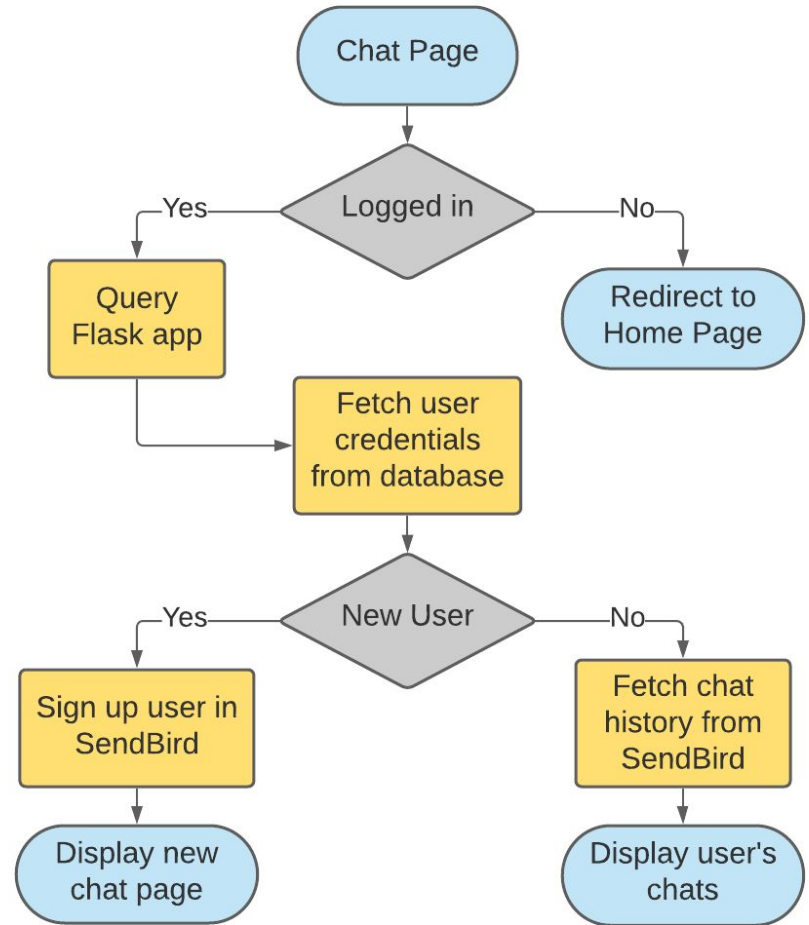


# Technical Progress: Search API

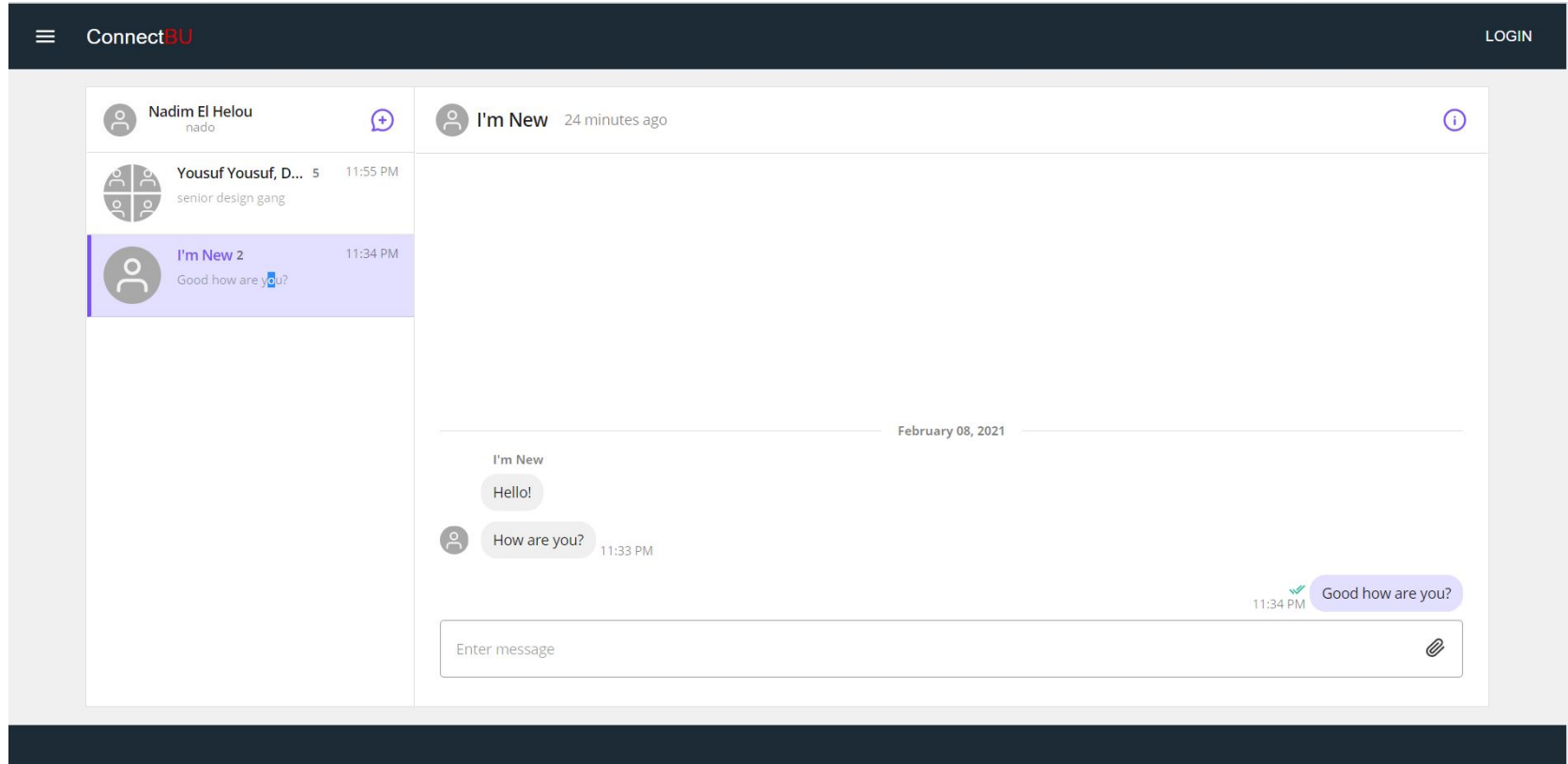


# Technical Progress: Messaging API

- SendBird Microservice
- Security in transit: TLS encryption
- Secure storage: AES256 encryption on SendBird's private cloud



# Technical Progress: Messaging Page



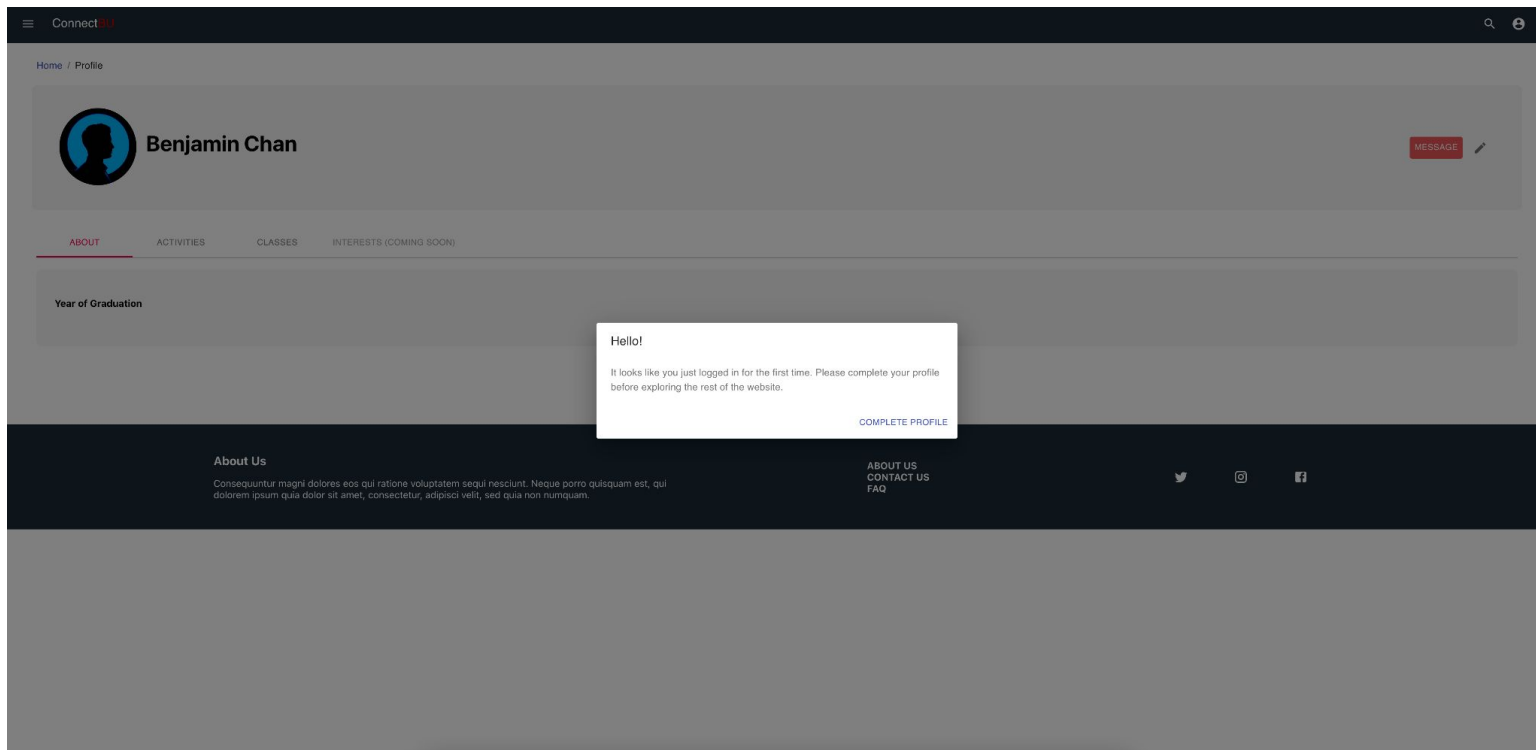


# Technical Progress: Profile Page

- Changed design of profile page
- Improved user flow for signing up based on user feedback



# Technical Progress: Profile Page



# Technical Progress: Profile Page

The image shows a web application interface for a user profile. The background is a dark grey page with a header bar containing a menu icon, the text 'ConnectSU', and search and user icons. Below the header, the breadcrumb 'Home / Profile' is visible. The profile section features a circular profile picture of a person with a blue silhouette, the name 'Ben Chan', and two tags: 'CAS Anthropology' and 'CAS Ancient Greek & Latin'. A red 'MESSAGE' button with a pencil icon is to the right. Below the profile section, there are tabs for 'ABOUT', 'ACTIVITIES', 'CLASSES', and 'INTERESTS (COM)'. The 'ABOUT' tab is active, showing a 'Year of Graduation' field with the value '2021'. An 'Edit Profile' modal is open in the center, containing several input fields: 'First Name' (Ben), 'Last Name' (Chan), 'Where Are You From?' (dropdown), 'What's your major?' (CAS Anthropology with a close icon), 'What's your minor?' (dropdown), 'Clubs?' (dropdown), and 'Research Groups?' (dropdown). At the bottom right of the modal are 'CANCEL' and 'UPDATE' buttons. The footer of the page includes the text 'About Us' and a paragraph of placeholder text, along with social media icons for Twitter, Instagram, and Facebook.

ConnectSU

Home / Profile

**Ben Chan**

CAS Anthropology CAS Ancient Greek & Latin

MESSAGE

ABOUT ACTIVITIES CLASSES INTERESTS (COM)

Year of Graduation

2021

**Edit Profile**

First Name: Ben Last Name: Chan

Where Are You From?

What's your major?

CAS Anthropology

What's your minor?

Clubs?

Research Groups?

CANCEL UPDATE

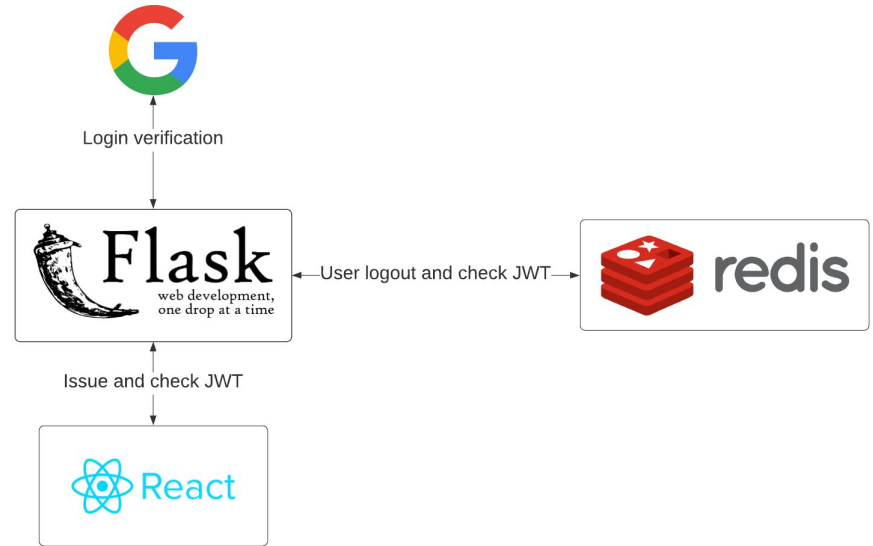
About Us

Consequuntur magni dolores eos qui ratione...

Twitter Instagram Facebook

# Technical Progress: API Security and Tokens

- Google Authentication verification
- Issuing JWTs (JSON Web Tokens) to handle authorization and session management
- Checking JWT on each use of our endpoints
- Logout implemented with Redis

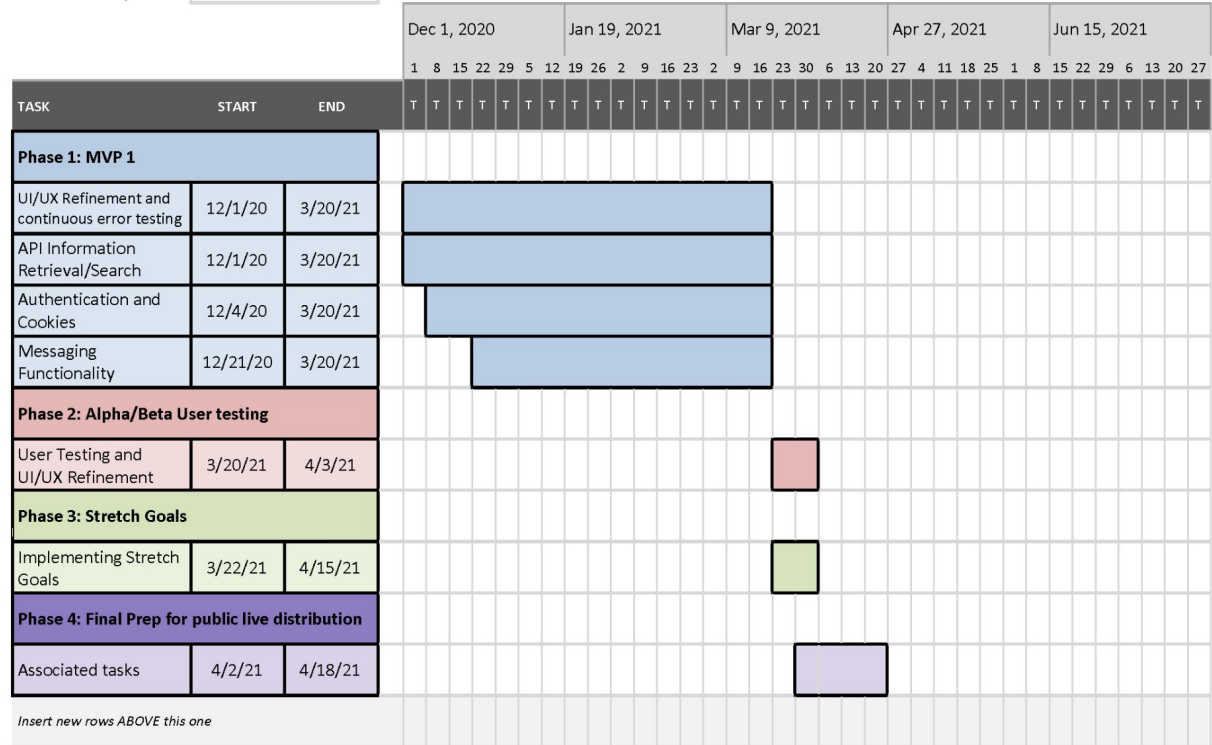


# Gantt Chart

Team 3

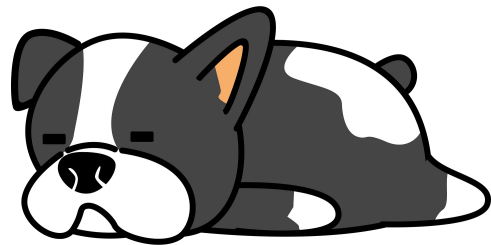
Client: Professor  
Osama Alshaykh

Tue, 12/1/2020



# Work Needed

- Connecting all elements together for live distribution
  - Last check to make sure each individual code module is functional, well documented
  - Merging all development branches one by one, error checking and testing webapp after each merge
  - Fully connecting new components and parts to the backend
- Design updates
- User, stress, and error testing
- Collecting usage analytics



Questions?