PROJECT MILESTONE 4 - GROUP 3

Project Feature List:
Student Calendar

- Calendar marking assignments **[1]**
    - Populates calendar with classes and assignments the students are enrolled in using the Google calendar API.
- Database **[1]**
    - stores assignments, profiles, and calendar events
- User Profile **[2]**
    - User can create a page where they can enroll in classes that are updated in the calendar, join groups with other students.
- To-Do list
    - User can create a simple to-do list for assignments with a priority system
- Integrated Discord messaging functionality
    - Users are able to contact other users through discord. Adding users to a group message would add them to a Discord channel.

Architecture Diagram:
This is located on Github.

Front End Design:
Wireframes for all of our pages are located in the 'Wireframes' folder on Github.

Web Service Design:

Google Calendar:
The google calendar API uses most of the features on the google calendar web interface (allows for full calendar functionality). A user has access to a primary calendar and to other users calendars/events when invited. The calendar ids are related to the user's email address. Events can be added to the calendar with dates and time frames and push notifications can be enabled. Data that is getting passed to the API is the user's email, created events, and associated events by invite. Data being passed from the API to the user is push notifications and events related to the user with their dates.

Discord:

https://discord.com/developers/docs/intro
We will likely create a Discord bot relay messages to and from users. Discord bots use the Discord REST API to perform actions such as sending messages and inviting users to a server. The data that will be passed to the Discord API is the user's Discord credentials and the contents of messages. The data that is retrieved from the API is the contents of messages that were sent to the user.

Database Design:
The diagram for our database model is on Github

Challenges:

- Time management: some weeks we were too busy
- Project Features scope: Ideas have changed somewhat irregularly so narrowing a structure on a specific part of the project has been a little difficult
- Learning curve of technologies: With the labs in tandem, some technologies like PostgreSQL and Node.js have been difficult to understand/integrate into the app

Backup Plan:

- Cutting out unnecessary features that cause too much hassle
- Specification of tasks/strengths per person

Individual Contributions:

Tejas:

- Drew more wireframes
- https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-015-03/commit/5bf3cf57818bc9e455b76d7aaff2048ae0b43e55

Sam:

- Worked on implementing to-do list in calendar page
- https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-015-03/commit/465a53996daf885fe61d36597b6725eda3229674

Alex:

- Architecture diagram
- Account settings wireframe
- https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-015-03/commit/3304fa1b18a966bb7f040231e96779abe652d2e7

Andrew:

- General css work
- https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-015-03/commit/4588605f17df82c4abb70e60a88bb9437b76c854

Nathan:

- Refined basic database model
- https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-015-03/commit/486a114830ca428780ff7243beb5c2de1e1cca63

Medhaj:

- To Do list
- https://github.com/CU-CSCI-3308-Fall-2021/CSCI-3308-Fall21-015-03/commit/b984bc9c165ce254b66a2ca35b394f6826357486