Team Pupiter Classroom - Emily Zhang (PM), Kevin Li, William Lin, Henry Liu
SoftDev2 pd1
Project Name: **Learnination Machine**
Design Document

Description:
Our website aims to be an alternative portal to Google Classroom with added features/quality of life improvements, such as a better integrated calendar, the ability to hide classes, searching for posts, etc. Everything done on this site is reflected on Google Classroom.

Selling points of our app:

- The ability to hide classes you don't want to leave, without waiting for your teachers to archive them
- Being able to group classes together
- Searching for posts so you don't have to keep scrolling
- Have a calendar that is more integrated with the site (rather than redirecting to another like Google Calendar)

Task division:

A. Emily (Project Manager)
- Oversees project development
- Updates devlog and design doc
- Gradebook
- Archive classes

B. Kevin Li
- Interfacing with Google Classroom API
    - Sign in with Google
    - GET data, POST data back to Google
    - Deployment to droplet via Flask (and Apache, if time permits)

C. William Lin
- Database work
- Front end

D. Henry Liu
- Search mechanism for posts
- Calendar/To Do List

API(s) used:

- Google Classroom API

Core Components:

A. Navigation Bar (present on every page)
- Classes
  - List of classes (view, hide)
  - No join or leave functions - not provided by API
- Calendar + To-Do List (by day)
- Right side: Archived/hidden classes
- Right side: Logout

B. Home page
- Welcome text
- Sign in with Google button

C. Classes (same functionality of Google Classroom)
- View posts/assignments and their due dates, grades, status
- Search for posts
- Comment on posts
- Allows for submission of images/audio/video along with text
- List of upcoming deadlines + previously turned in work
- View class roster (can email students)

D. Calendar
- Calendar view of previous/upcoming assignments' due dates
- Can view events of a certain day by clicking on a day in the calendar

E. View archived/hidden classes
- Split into two sections
- Archived classes retrieved from Google Classroom API
- Hidden classes are stored in this site's database - do not list those on the classes page

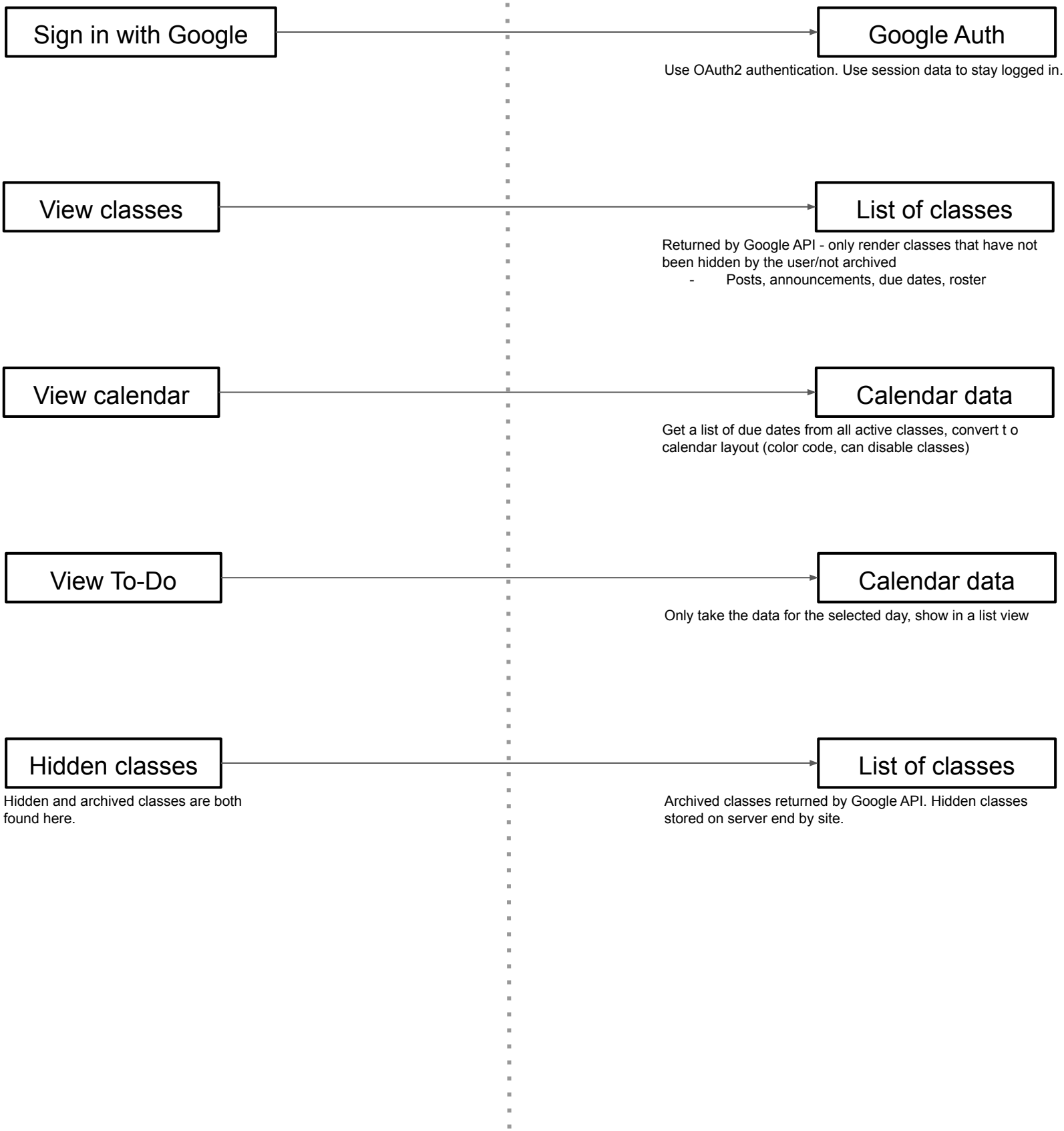
Extra components:
- Customizable folders to sort courses
- Filter assignments on To Do list

Component Map

MACHINERY
(includes functions, utl folder, templates.)

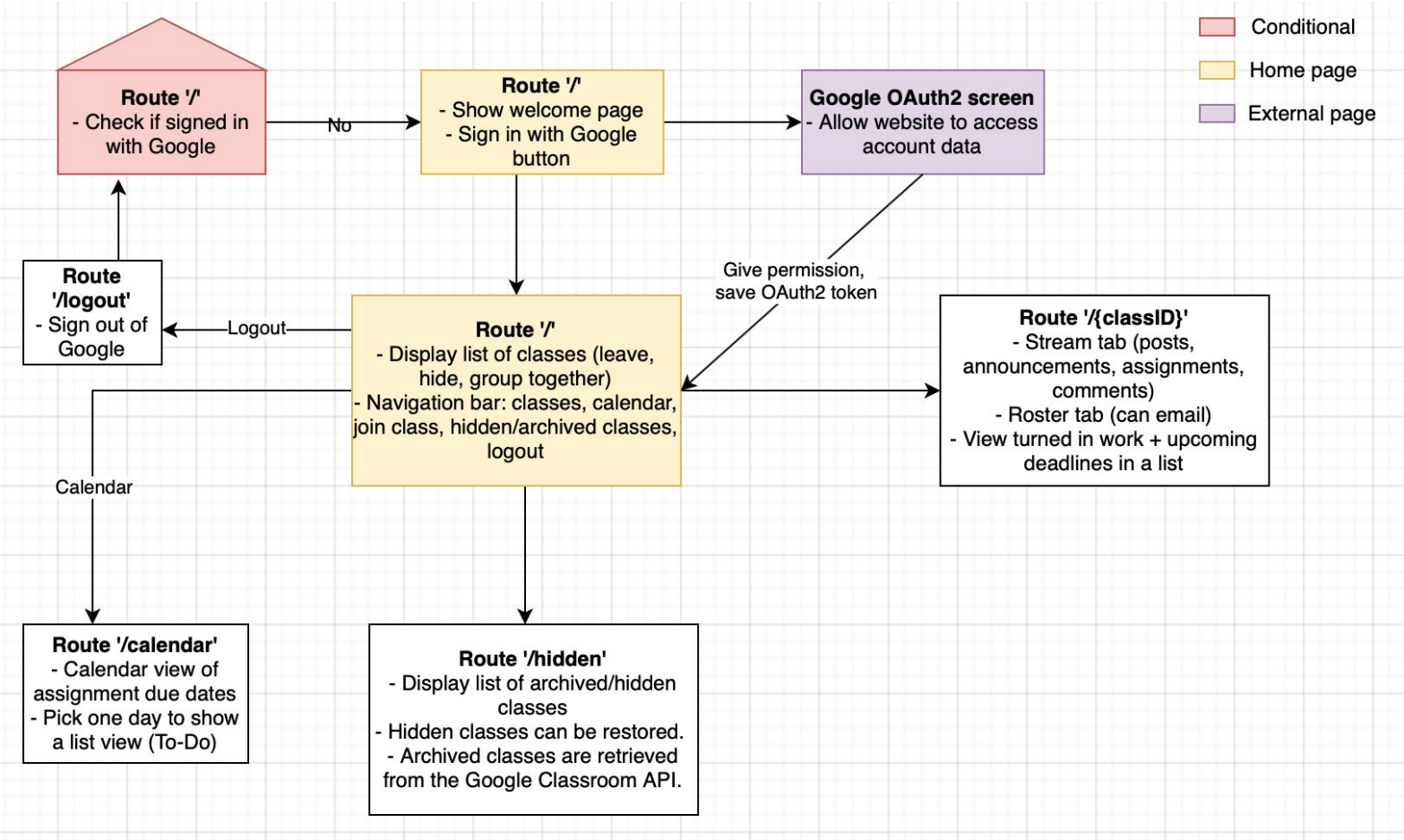
FRONT END (client)

BACK END (server/API)



Site Map

https://drive.google.com/file/d/1q8gDmpBdpGTBNQsAY1qu5p7bL63MuNxb/view?usp=sharing



Database

users

ID (assigned by Google per acct)	hidden_class_ids	group_class_ids (put similar classes together) [if we have time]
INT	TEXT	TEXT
30293131321836l8	“30219, 88148, 887471, 74617”	“381918, 31811”