

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. However, due to lack of permissions, everything is strictly *read-only*.

### Selling points of our app:

- The ability to hide classes you don't want to leave, without waiting for your teachers to archive them
- 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/Calendar APIs
    - 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](#)
- [Google Calendar API](#)

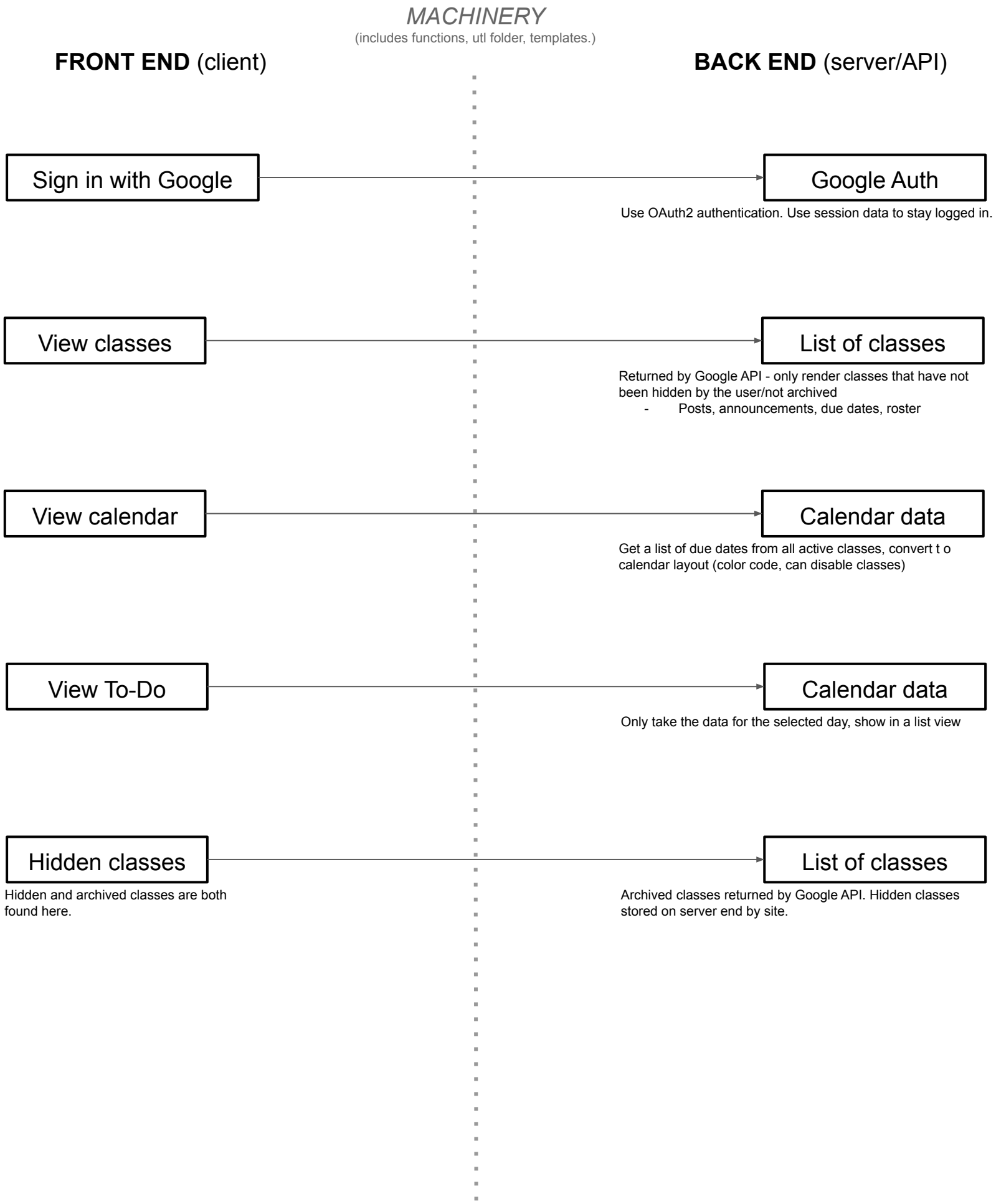
### Core Components:

- 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
    - Lists upcoming assignments for each class
  - 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
  - List of upcoming deadlines + previously turned in work
- 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:

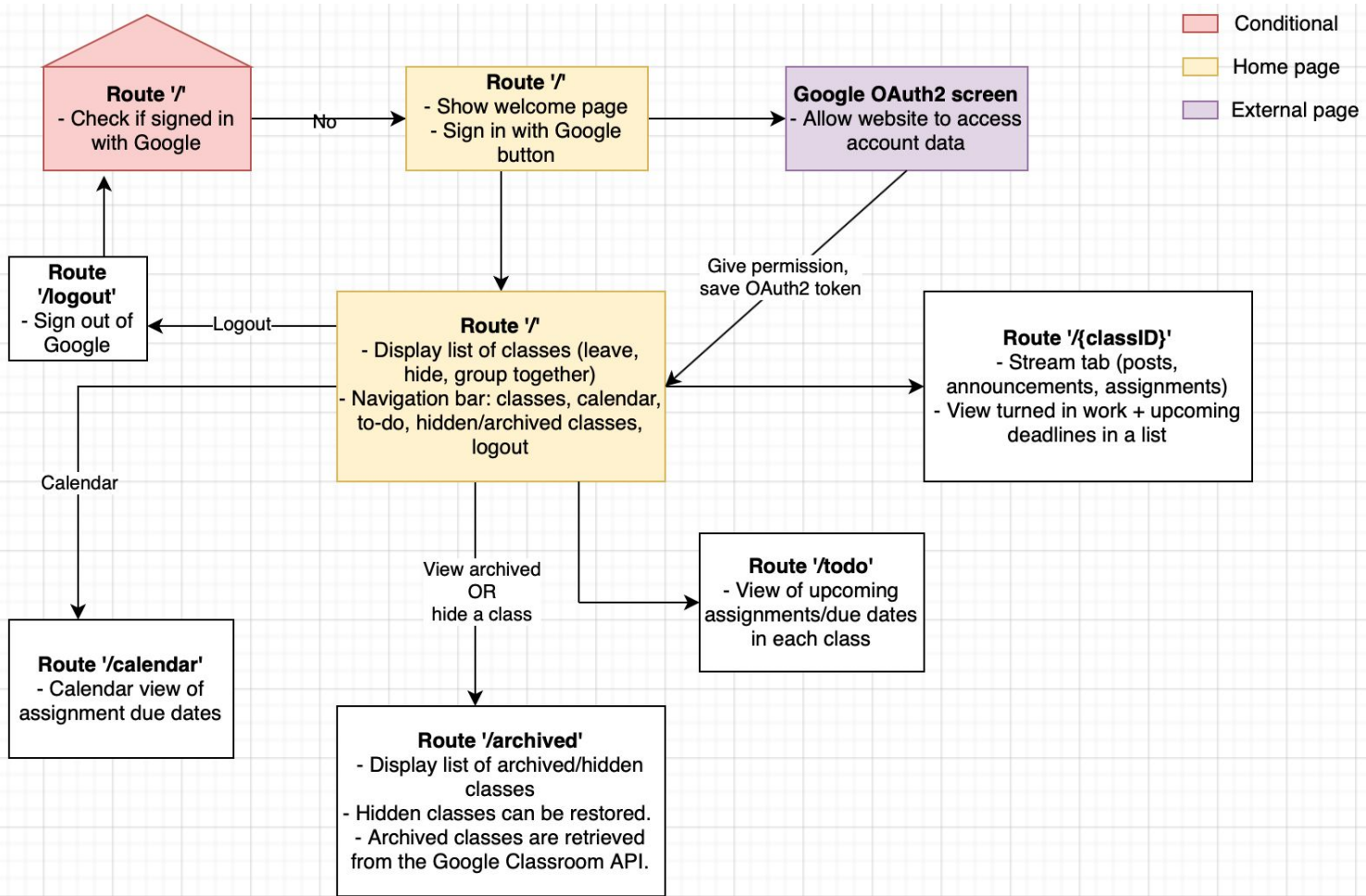
- Customizable folders to sort courses
- Filter assignments on To Do list

# Component Map



# 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   |
| 3029313132183618                 | “30219, 88148, 887471, 74617” | “381918, 31811”  |