

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
- 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
- D. Henry Liu
 - Search mechanism for posts

API(s) used:

- [Google Classroom API](#)

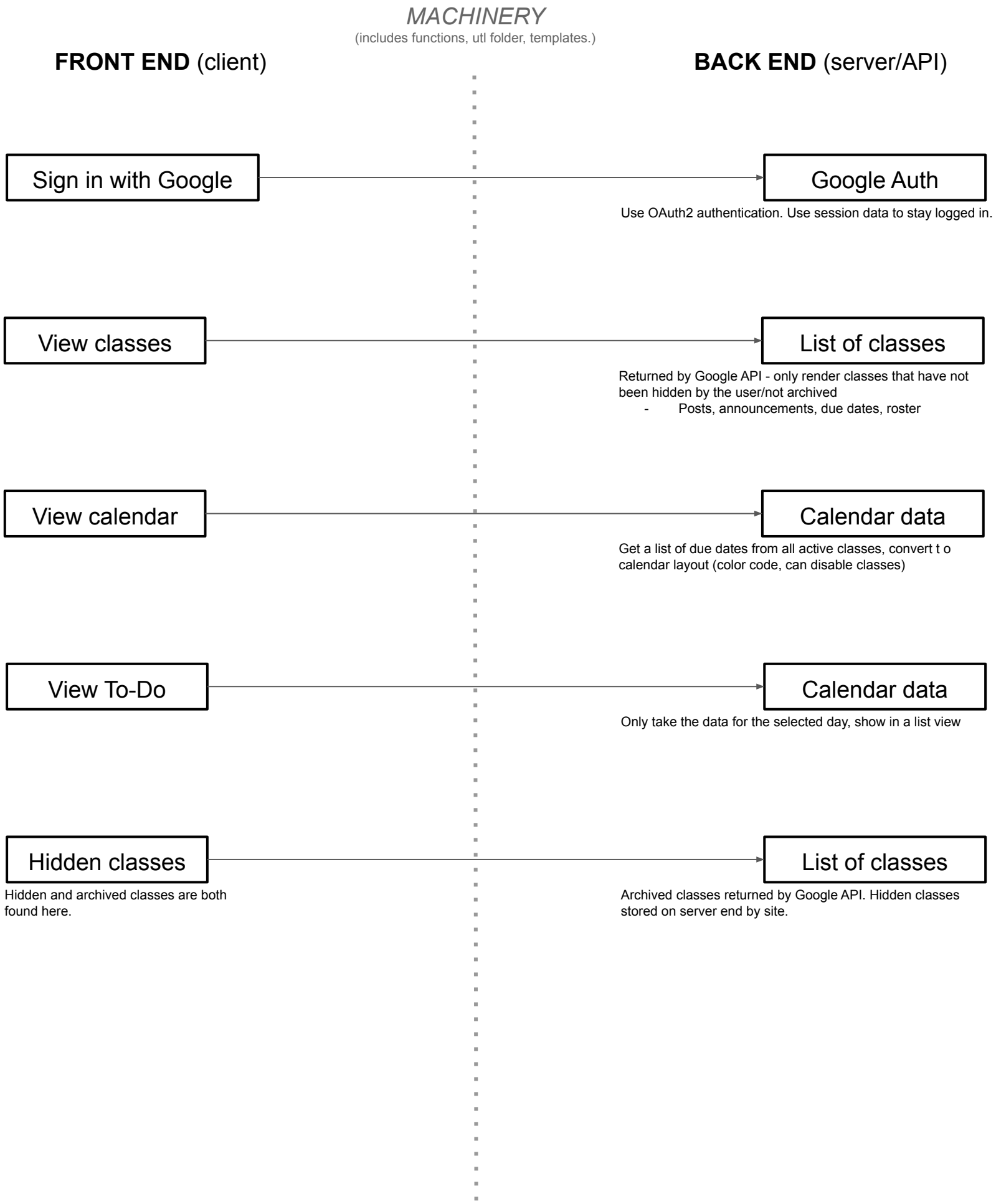
Core Components:

- 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:

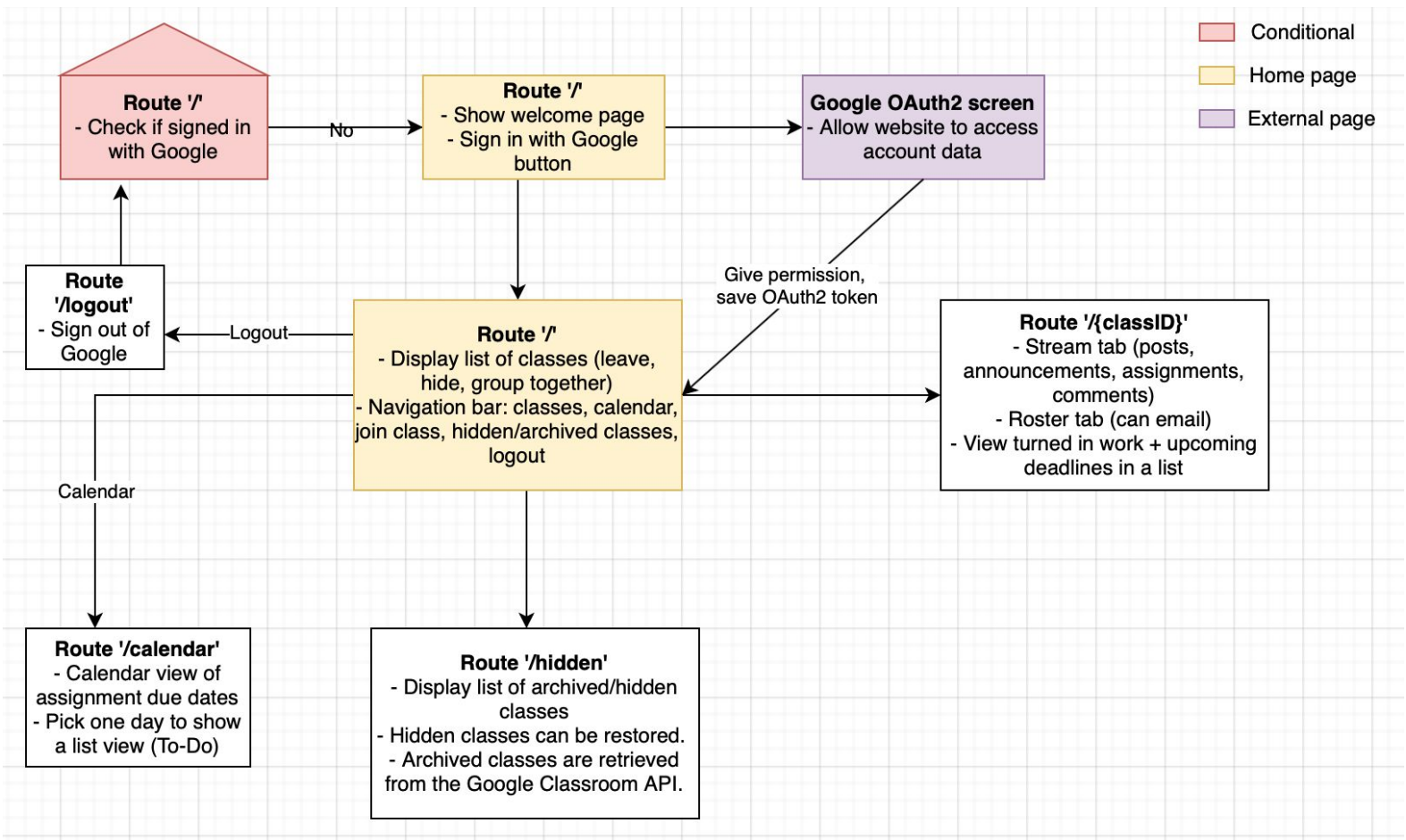
- Customizable folders to sort courses
- Filter assignments on To Do list

Component Map



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”