Team IllegalSkillsException
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Classify
A teacher's tool and a student's blessing

Project Description:
Our website will be a combination of Google Classroom elements and JupiterEd. This is basically a student management site/homework assignment site for teachers, and a grade site/homework submission site for students. Teachers will be able to create classes which students can join, and assign homework that students have to hand in either through a typed plain-text response or a file upload. Teachers can view, change, and add grades and notes for every student, and students can see them. Students and teachers can also send/receive messages.

APIs Used:
- FavQs: API to generate random quote to inspire students and add a nice touch
- AvatarAPI (or Adorable Avatars): to fetch a gmail avatar or random avatar to make the site feel more personal
- Google Calendar: to add due dates, test dates, etc.
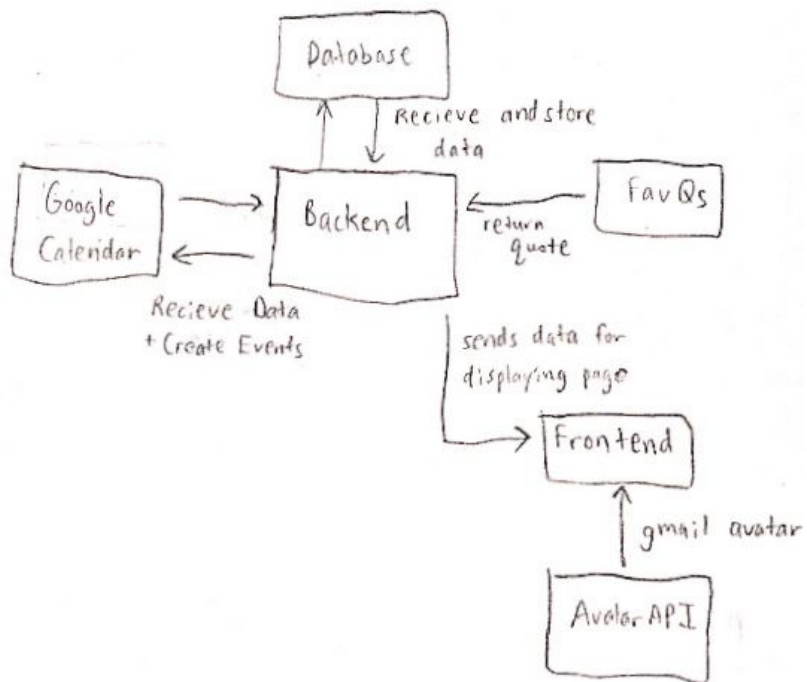- Dropbox: API to store/manage student and teacher files

API Quotas/Keys:
- FavQs: no quota/key
- AvatarAPI: no quota
- Google Calendar: 1,000,000 per day (500 per user per 100 seconds)
- Dropbox: key required, no documented limit but there is a per-use limit to prevent abuse

Frontend Framework Choice: Bootstrap
Our team decided to use Bootstrap because the group is most familiar with Bootstrap, and there is more documentation for it. It is easier to understand and more intuitive than Foundations, which several members in the group have already attempted to use.

Component Map:

- Database
- Backend — Recieve and store data
- Google Calendar
- Fav Qs — return quote
- Recieve Data + Create Events
- sends data for displaying page
- Frontend
- gmail avatar
- Avatar API

Teacher Site Map:

Teachers use same login (but choose teacher)

Dashboard

HOME	Events	grades	classes	⑧ ▾

Acct
logout

Upcoming events:
1) x
2) y

+ create new hw

view HWs

Grades

Choose a class

Physics	chem

Classes

| 1 | 2 | 3 |

⊕ new class

Sample Class — Physics

Search ▭

Student 1	Avg: X	delete	Edit
Student 2			

etc

Sample class

Today's Assigned Hw.
  None

Resources
  1) x
  2) y

+ Add resource

+ new hw

Edit (we can add sections later)

Physics [change class]   Avg: X

Assignments	Percentage of grade	
1) x (test)	15%	Lgrade: X
2) y (hw)	85%	grade: X
3) z (proj)		

Events

Date	Name	class
z	x	y
↓	↓	↓

+ Add new   View calendar

→

Adding Event

class: [Math ▾] ← dropdown
type: [test ▾] ← dropdown
date: [01/07/11]
name: [test 1]

Submit

Students site map:

HOME
| Create | Login |

pretty img
WELCOME!

Login/create Acct.
| student | teacher |

email
[_____]

pass
[_____]

[Submit]

Dashboard
HOME | Msg | classes | grades | calendar | 👤 Acct st. Logout.

Quote: ~~~

Today's HW:
~ [Submit]
~ [Submit]
~ [Submit]

Resources
1) ~~~~
2) . . . .
3) . . . .

⊕ Email

Classes

| Physics with Mr. ~ | Calculus Mr. ~ | ~~~~ |

(+ Join a Class)

Submitting HW

HW: ~~~

type response

[UPLOAD]

[Submit]

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sample class
Physics Mr. ~

| HW Today: 1) ~ 2) ~ | Resources /references 1) x 2) y |

[Submit]

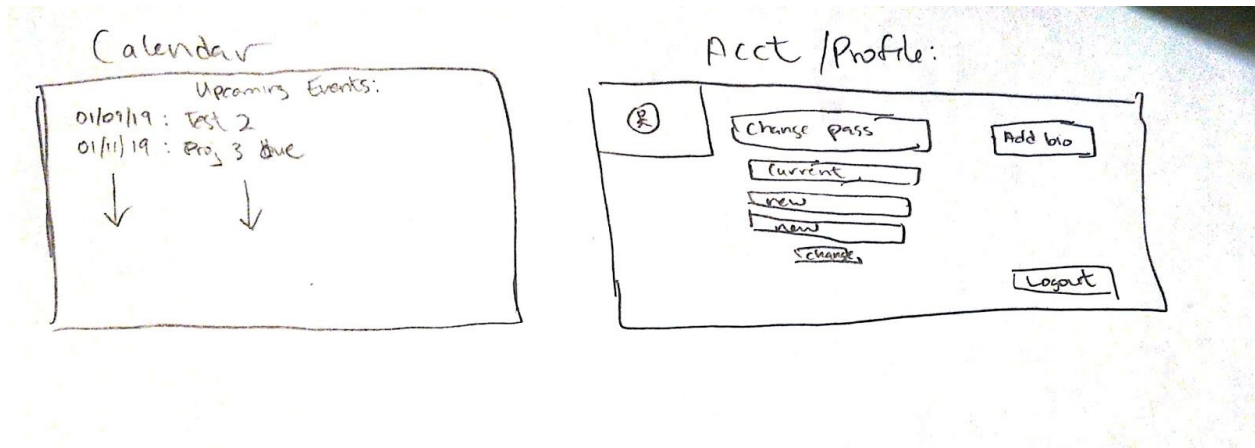yesterday

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EMAIL
Email

[chouse a teacher ▼]
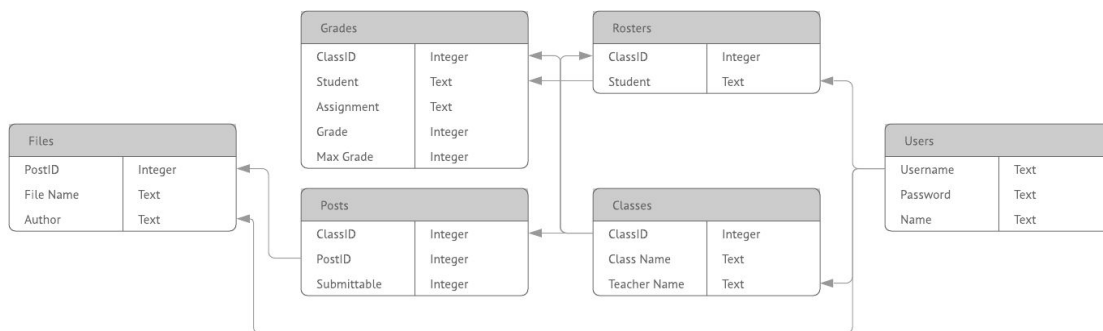1) ~
2) ~

[subject]

body

[send]

GRADES

Classes	Calc : Student x
Physics	Teaher: x
Calc	Average: x
chem	Assignment/Test:

Assignment/Test	Grade
1) Test 1	95
2) Project 0	88

Database Schema:

Grades	
ClassID	Integer
Student	Text
Assignment	Text
Grade	Integer
Max Grade	Integer

Rosters	
ClassID	Integer
Student	Text

Files	
PostID	Integer
File Name	Text
Author	Text

Users	
Username	Text
Password	Text
Name	Text

Posts	
ClassID	Integer
PostID	Integer
Submittable	Integer

Classes	
ClassID	Integer
Class Name	Text
Teacher Name	Text

User login info and their real name will be stored in the users table. The classes table will store a unique ID for every class, its name, and its teacher. The roster of a class will be stored in the rosters table, as a class ID and a student username. Grades will be stored in the grades table with the class ID, the student username, the assignment title, the grade given, and the max grade. Teachers can make posts in their classes, which will be stored in the posts table with a unique post ID, the class ID it comes from, and a submittable integer, which will be 1 if students will be allowed to submit work to the post, and 0 otherwise. The files table will store the author of the file, the post it comes from, and a unique file name that disregards the name of the inputted file for storage purposes.

Roles:
- Angela Tom: Project manager, Login, User data, Help with calendar
- Aaron Li: Frontend, help with backend if needed
- Kevin Lin: Text Editor, File Submission/Retrieval System
- Max Millar: Classes, Database, Calendar, Help with text editor