Human Jello: Sophie Nichol, Lauren Pehlivanian, Winston Peng, Jason Zheng
P#02: The End
SoftDev1 Pd9
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Stuyvesant Opportunities Bulletin

Overview:

We are creating an opportunities bulletin that will improve on the document that Mr. Blumm emails on a weekly basis. It will list internship and job opportunities that are available to students at Stuyvesant High School depending on filters that the user will choose. They will be able to filter the results based on location, grades eligible, areas of interest, when it was posted, and when they want to participate in the program. Using the calendar API, we will create a calendar that will list all application deadlines.

There will be two account types: student and admin. Only Mr. Blumm will have access to the admin account, which will allow him to post and delete opportunities. Any student can sign up for a student account, which allows them to view and save opportunities.

We will use Bootstrap.

APIs:
- Google Calendar API
  [https://docs.google.com/document/d/1atMCAui86AwBSWEz8lCIJFaNkUL4V5fwVecNcnxSpP0/edit]

Minimum Viable Product:
- Login page where a student sign up, login, or use the bulletin board without the extra features a logged in user is given.
- Admin account will be able to fill out a form that posts to the main page with the most recent at the top.
- Admin will be able to delete opportunities.
- Student user will be able to save and view their opportunities.
- Button that redirects users to a calendar with events/deadlines.

Extra Features Given To Logged In Users:
- Will be given a personalized page with events/deadlines that only apply to them. Must first fill out their profile in the upper right hand corner.
- Will be able to click on a button next to all admin posts to add to their personalized calendar.
- Users will be able to react to posts with emojis allowed by the admin who made the post.

- Users will have a group users page to post to. Can only post once a day.
- Users will be able to reset their password in case they forget by entering in their OSIS and email as confirmation.
- Only allow users with a stuy.edu email address to sign up.
- Create a rating system for users to rate opportunities they have done in the past, which would be useful to potential applicants to that program.
- Add another class of users: teachers, who can suggest opportunities to include.

What We Will Need:
- Flask App with routes
- HTML and Bootstrap
- Databases
  - User Information
  - Admin Posts
  - User Posts
- API
  - Google Calendar API

Database Layout:

Users Table:

User ID	Username	Passwd	OSIS	Email	Grade	Interests	Admin
0	Bob	asdf	21324 3421	asdf@stuy.edu	12	Booleans	False
1	Blumm	hello		m@stuy.edu			True

Admins will be stored in the users table and identified using a column with a boolean.
The grades and interests will actually each have their own column and will store a boolean to represent whether or not that grade is eligible or the interest is relevant to the opportunity

Opportunities Database:

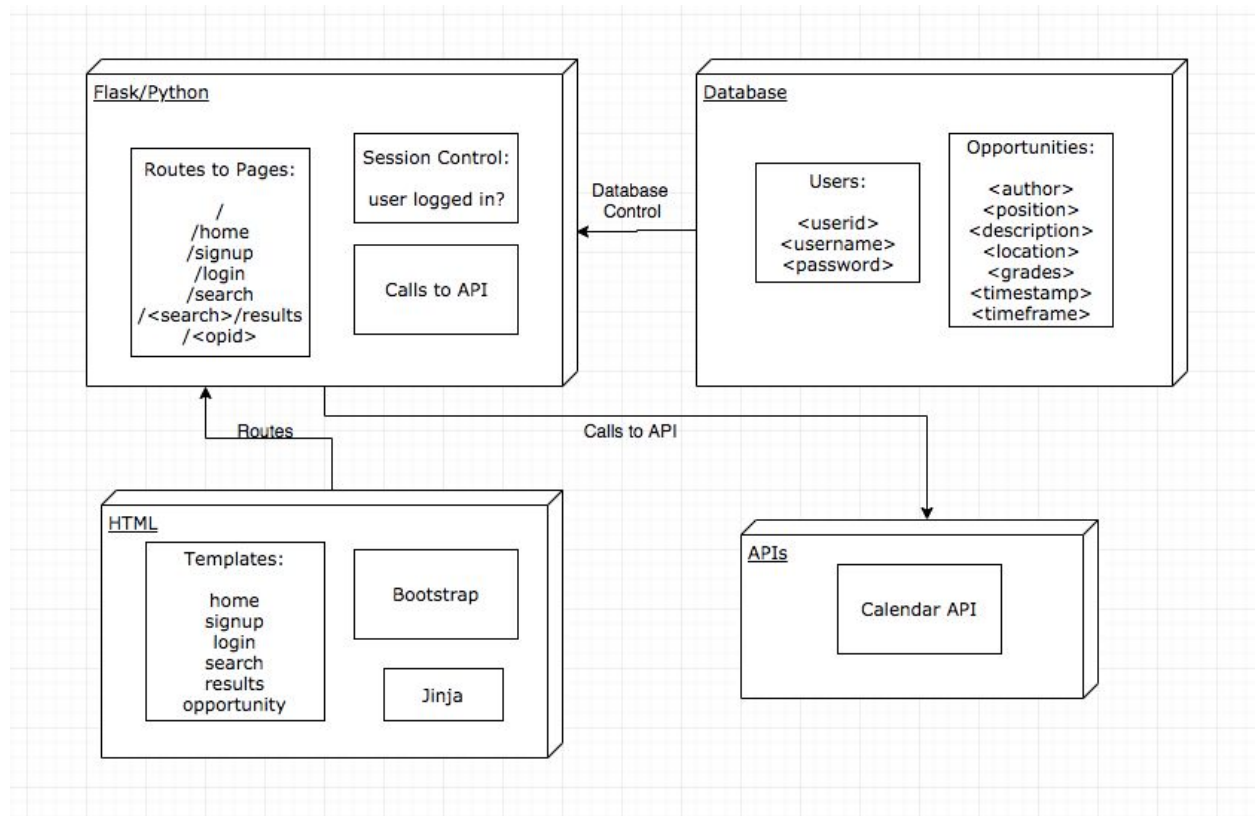| Post ID	Grades	Interests	Name	Cost	Desc	Place	Due Date	Posted	Start Date End Date
0	Booleans	Booleans	Intern For gov	Paid $100	cool	Queens	2020-04-03	2020-01-03	2020-07-01 2020-07-30

The grades and interests will actually each have their own column and will store a boolean to represent whether or not that grade is eligible or the interest is relevant to the opportunity
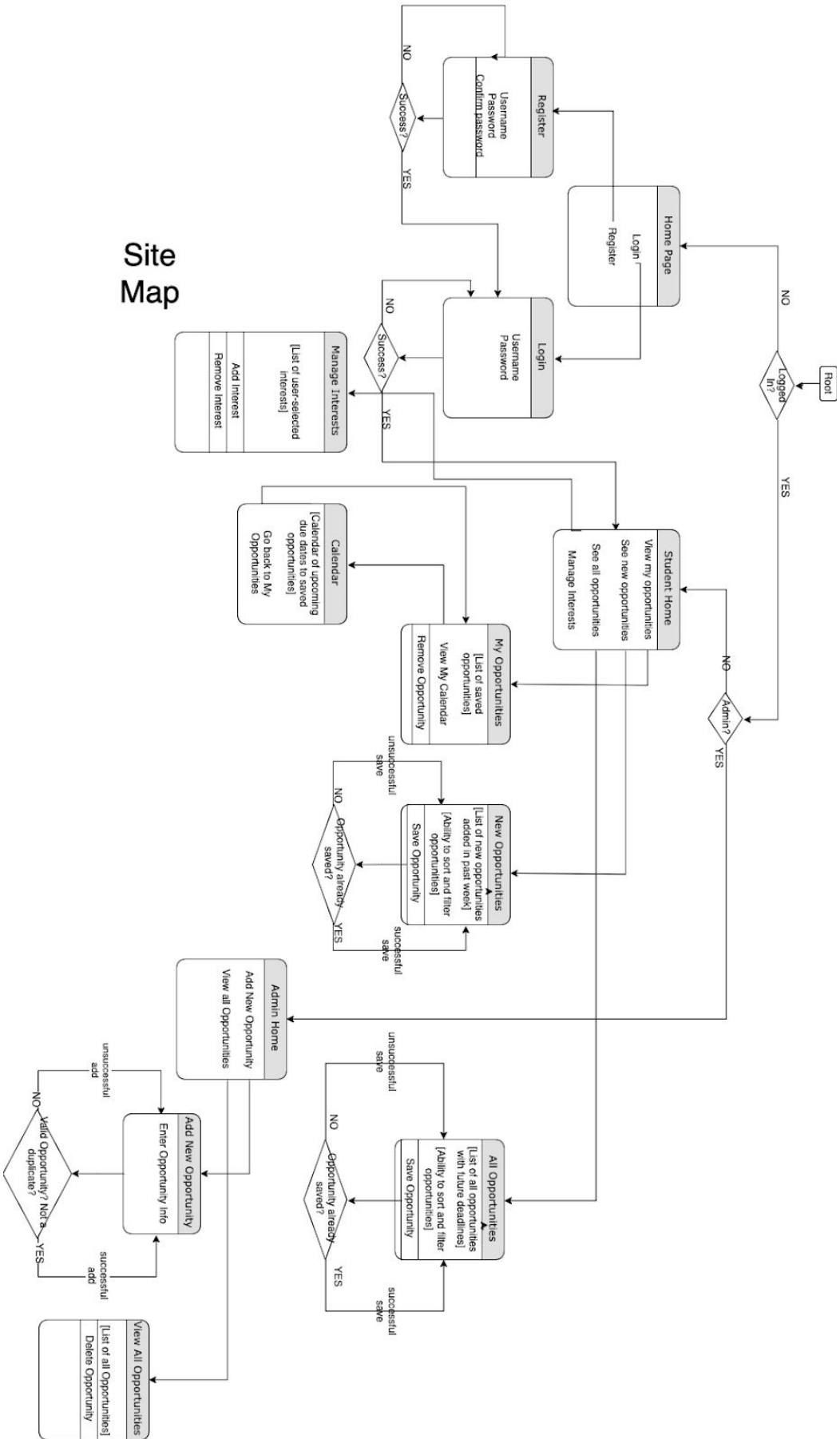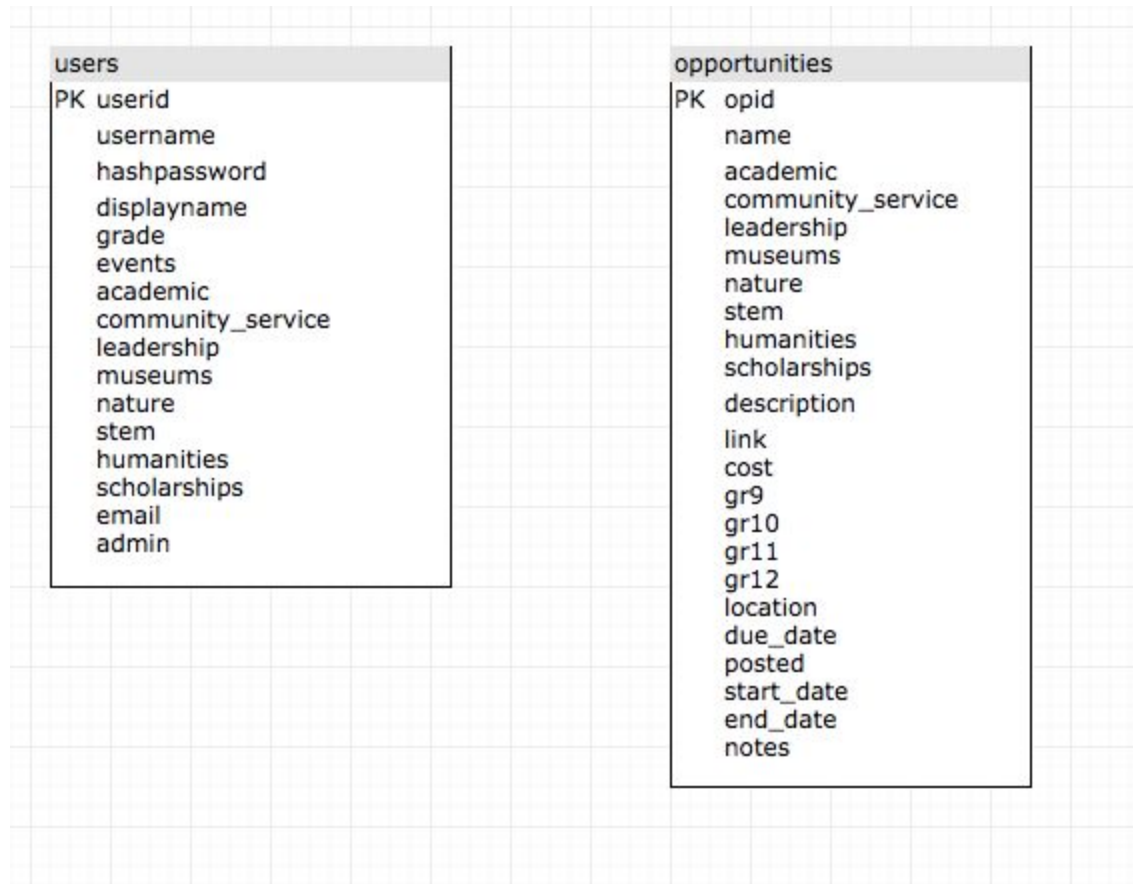
Component Map:

Site Map

```
Root → [Logged In?]
         ├─ NO → Home Page
         │         ├─ Register → Register
         │         │              (Username, Password, Confirm password)
         │         │              → [Success?]
         │         │                  ├─ NO → back to Register
         │         │                  └─ YES → Login
         │         └─ Login → Login
         │                     (Username, Password)
         │                     → [Success?]
         │                         ├─ NO → back to Login
         │                         └─ YES → Student Home
         └─ YES → [Admin?]
                    ├─ NO → Student Home
                    └─ YES → Admin Home
```

Register
- Username
- Password
- Confirm password

[Success?] — NO / YES

Home Page
- Login
- Register

Login
- Username
- Password

[Success?] — NO / YES

Manage Interests
[List of user-selected interests]
- Add Interest
- Remove Interest

Student Home
- View my opportunities
- See new opportunities
- See all opportunities
- Manage Interests

Calendar
[Calendar of upcoming due dates to saved opportunities]
- Go back to My Opportunities

My Opportunities
[List of saved opportunities]
- View My Calendar
- Remove Opportunity

New Opportunities
[List of new opportunities added in past week]
[Ability to sort and filter opportunities]
- Save Opportunity

[Opportunity already saved?]
- NO / unsuccessful save
- YES / successful save

Admin Home
- Add New Opportunity
- View all Opportunities

All Opportunities
[List of all opportunities with future deadlines]
[Ability to sort and filter opportunities]
- Save Opportunity

[Opportunity already saved?]
- NO / unsuccessful save
- YES / successful save

Add New Opportunity
- Enter Opportunity Info

[Valid Opportunity? Not a duplicate?]
- NO / unsuccessful add
- YES / successful add

View All Opportunities
[List of all opportunities]
- Delete Opportunity

Database Diagram:

Roles:
- Sophie:
  - Project Manager
    - Revise design doc
    - Assign tasks
    - Facilitate communication
  - Create cards for each API used to store in the Knowledge Base
  - Troubleshoot issues and complete minor coding tasks as necessary
- Jason:
  - implementing calendar
    - figure out how to use API
    - use database data to make calendar events
- Winston:
  - Develop admin account
    - Add/delete opportunities to collection.

- ○ Work on implementing filtering when viewing opportunities.
- ● Lauren:
  - ○ Develop student account
    - ■ Add/delete opportunities from Saved Opportunities.
  - ○ Work on New Opportunities and All Opportunities page.