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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 7 routes
    - Login, Main, Calendar, Profile, User Main, Personalized Main, Personalized Calendar.
- 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	2132433421	asdf@stuy.edu	12	“Math, CS”	False
1	Blumm	hello		m@stuy.edu			True

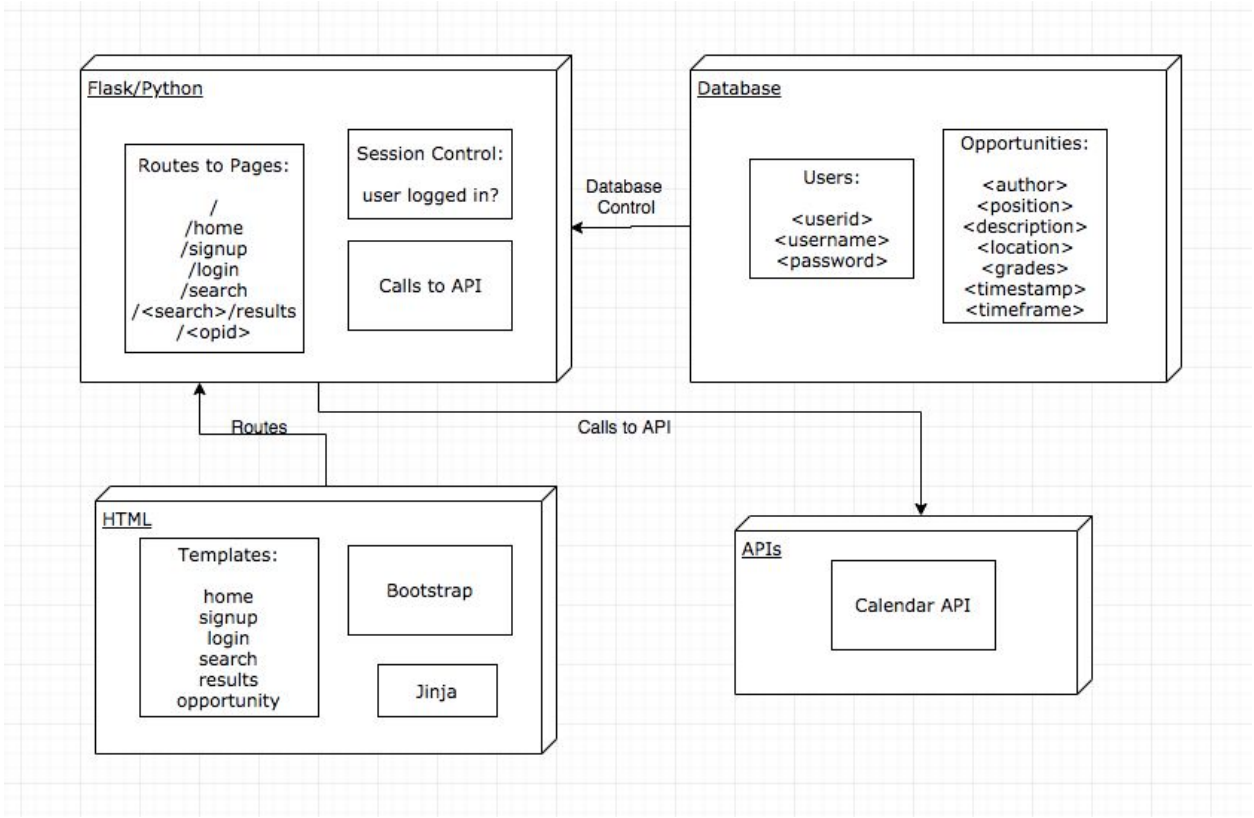
Admins will be stored in the users table and identified using a column with a boolean.

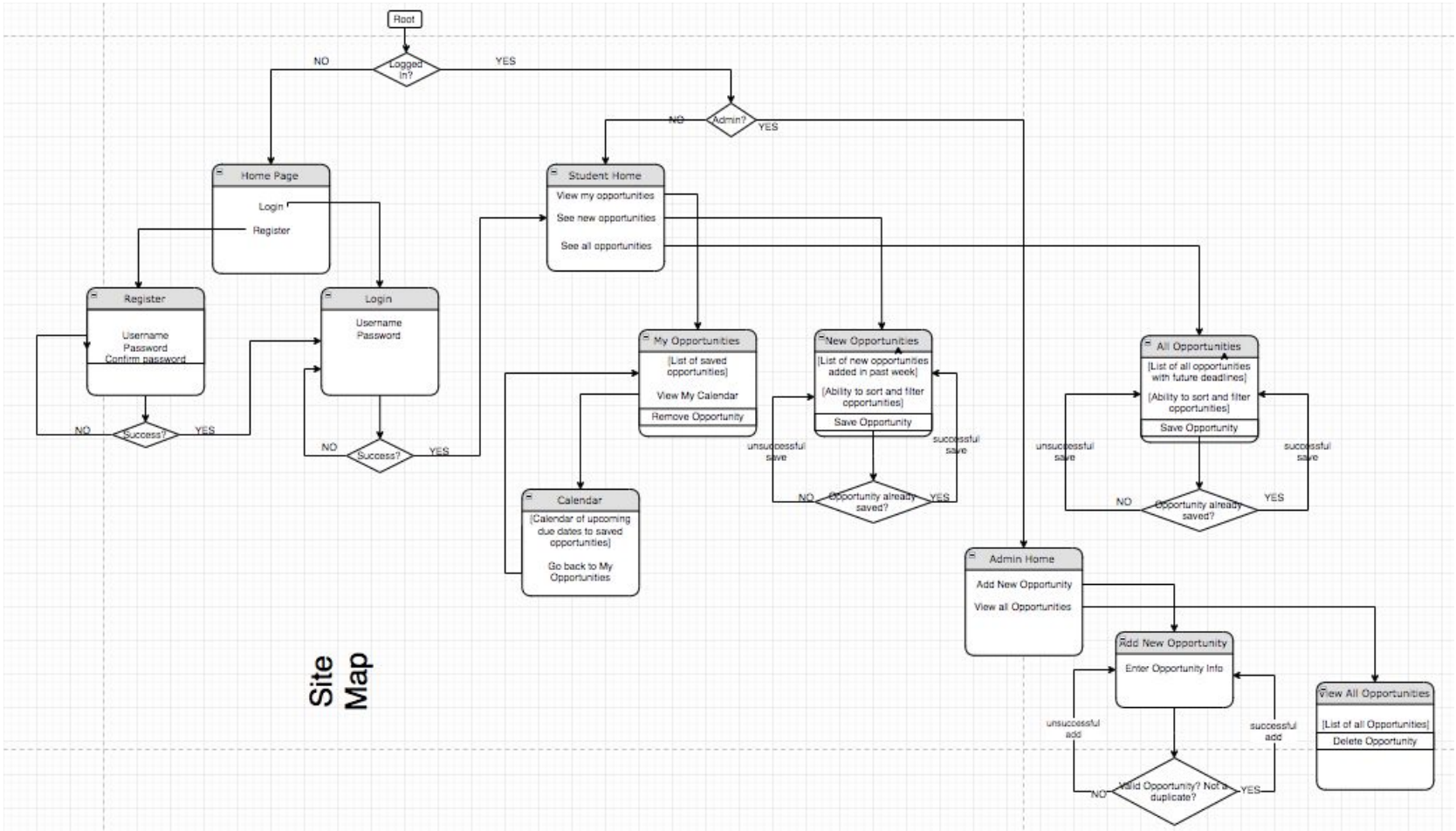
Opportunities Database:

Post ID	Grades	Interests	Org.	Position	Desc	Place	Due Date	Posted	Dates
0	“9,10, 11”	“CS, Bio”	US govt	Intern	cool	Queens	2020-04-03	2020-01-03	2020-07-01, 2020-07-30

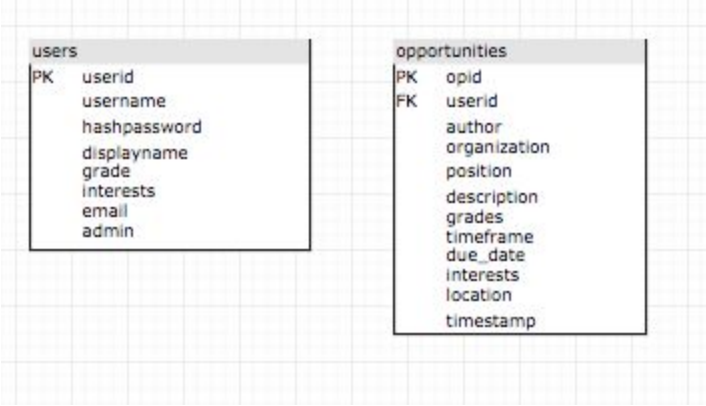
We will access the grades and interests in the strings by separating at the commas.

Component Map:




Root
Logged In?
NO
YES
Admin?
NO
YES
Home Page
Login
Register
Register
Username
Password
Confirm password
Success?
NO
YES
Login
Username
Password
Success?
NO
YES
Student Home
View my opportunities
See new opportunities
See all opportunities
My Opportunities
[List of saved opportunities]
View My Calendar
Remove Opportunity
Calendar
[Calendar of upcoming due dates to saved opportunities]
Go back to My Opportunities
New Opportunities
[List of new opportunities added in past week]
[Ability to sort and filter opportunities]
Save Opportunity
unsuccessful save
successful save
Opportunity already saved?
NO
YES
All Opportunities
[List of all opportunities with future deadlines]
[Ability to sort and filter opportunities]
Save Opportunity
unsuccessful save
successful save
Opportunity already saved?
NO
YES
Admin Home
Add New Opportunity
View all Opportunities
Add New Opportunity
Enter Opportunity Info
unsuccessful add
successful add
Valid Opportunity? Not a duplicate?
NO
YES
View All Opportunities
[List of all Opportunities]
Delete Opportunity
Site Map

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.