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SoftDev1 pd9
P #02 – The End
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Oikos by theyputhiminapeach

Project Objective

Our project aims to create a Stuyvesant-centered social media web application, replacing previous means of communication (i.e. Facebook) and providing an experience catered to Stuyvesant students. We will be utilizing *Bootstrap* as our frontend framework because all of our members are experienced with it.

List of Required Program Components

- LOGIN/REGISTRATION (USER ACCOUNTS)
 - If a user is not currently logged in, they can login and access the website.
 - If a user does not possess an account, they are able to register and create one.
 - Upon registration users will input their Stuyvesant email, their full name, grade, and password
- FEED
 - This is the home page. If a user is logged in, they will be redirected to their feed, where they can see recent activity from friends and communities that they are a member of.
- DASHBOARD
 - On this page we will utilize APIs to provide some information such as weather and news. We also potentially have the ability to use the Stuyvesant Spectator's API and hook in recent news to be displayed on the homepage.
 - The dashboard will also contain links to useful resources such as the Stuyvesant High School Website, Talos, and StuyActivities
- POSTS
 - Posts can be created by users
 - Posts can be made within a community, or just on the user's page
 - Posts can also have comments
- FRIENDS LIST
 - Users can become friends with other users
 - Users become friends by sending friend requests, which others can accept or decline
 - Friend requests and all friends will be shown on this page
- PROFILES/PROFILE PAGES
 - When a user creates an account, a profile page is automatically created for them.

- On a user's profile page, one can see a history of the user's activity, their posts, and basic information about the user (email, grade, full name, etc.)
- Others can add the user from this page
- COMMUNITY PAGES
 - Users can create communities to bring together people with a common interest (i.e. biology classmates, MUN members, Class of 2020, etc.)
 - Upon the creation of a community, a community page is automatically created for them. Only the creator of the community has the ability to change permissions (i.e. posting) and delete the community.
 - On a community page, people can join the community and make posts, which members of the community will be notified of. Basic information about the community can also be displayed (such as a community's description).
- MESSAGES
 - A messaging system that users can utilize to speak to others
 - Will not be instant, but act more like emails that someone can see within the messaging page

Database Tables

1. Users

user ID	email	password	displayName	firstName	lastName	grade
0	jd@stuy.edu	doenut	John Doe	John	Doe	Freshman
1	no@stuy.edu	nou	Jane Doe	Jane	Doe	Senior

2. communities

communityID	name
0	Class of 2020
1	Banfield Biology Fall 2016

3. Members

memberID	communityID	userID	displayName
0	0	0	John Doe
1	0	1	Jane Doe

2	1	2	Jane Doe
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4. Posts (note: if the post is on a user's timeline rather than in a community, communityID is null)

postID	communityID	userID	title	content	timestamp
0	NULL	0	College	Good luck on applications!	1/2/20 12:30
1	1	1	Exam	The exam was hard.	1/3/20 08:09

5. Comments

commentID	postID	userID	content	timestamp
0	0	1	Thank you for the good luck.	1/2/20 14:32
1	1	0	No it was easy. Study next time.	1/3/20 09:10

6. FriendRequests

requestID	senderID	receiverID	message	timestamp
0	0	1	hey you are in my bio class	1/2/20 14:32
1	1	0	nice shirt	1/3/20 09:10

7. Friends

userID	friendID	displayName
0	1	Jane Doe
1	0	John Doe

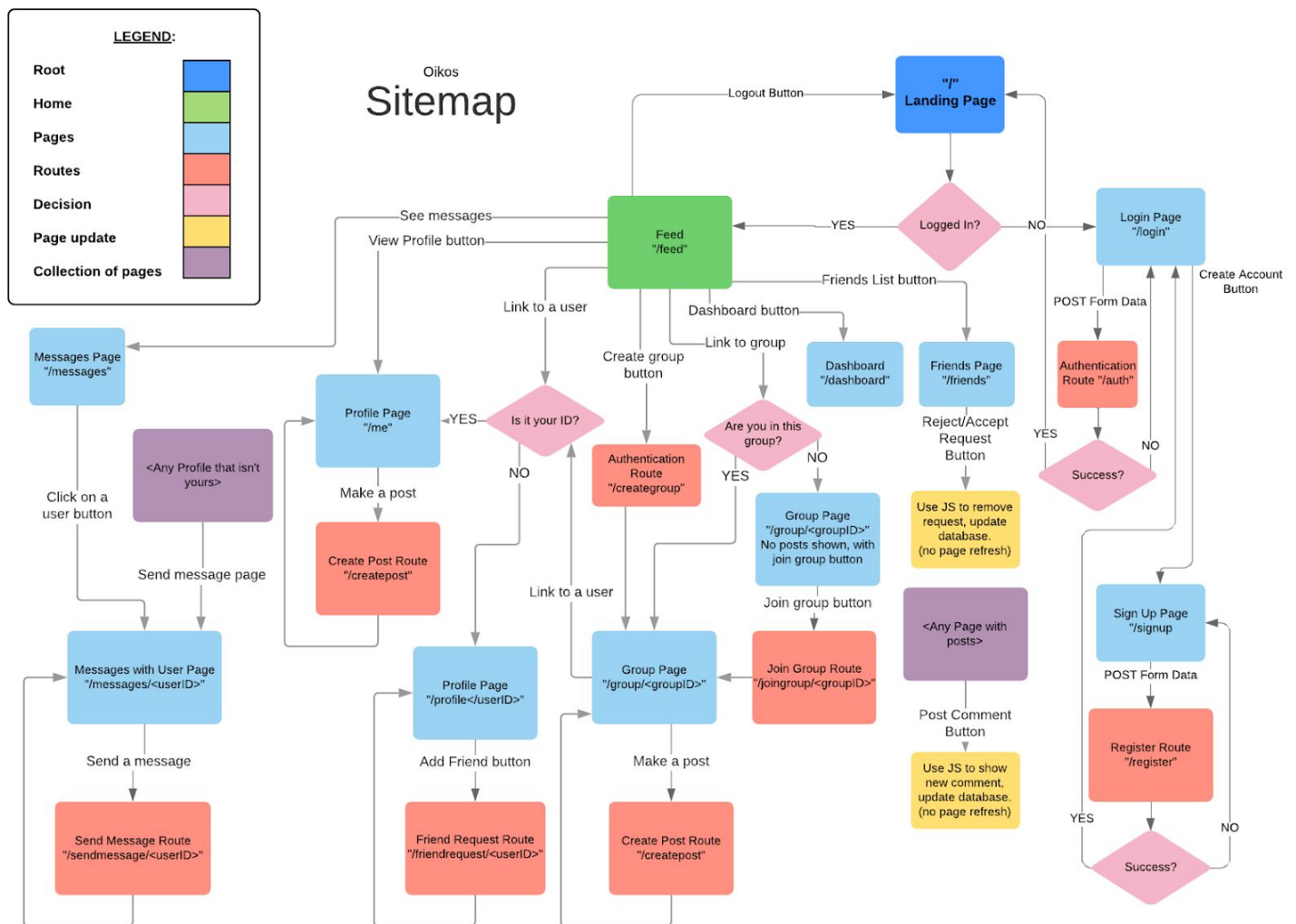
8. Messages

messageID	senderID	receiverID	content	timestamp
0	0	1	Answers for the test please	1/2/20 14:32
1	1	0	No academic dishonesty	1/2/20 15:10

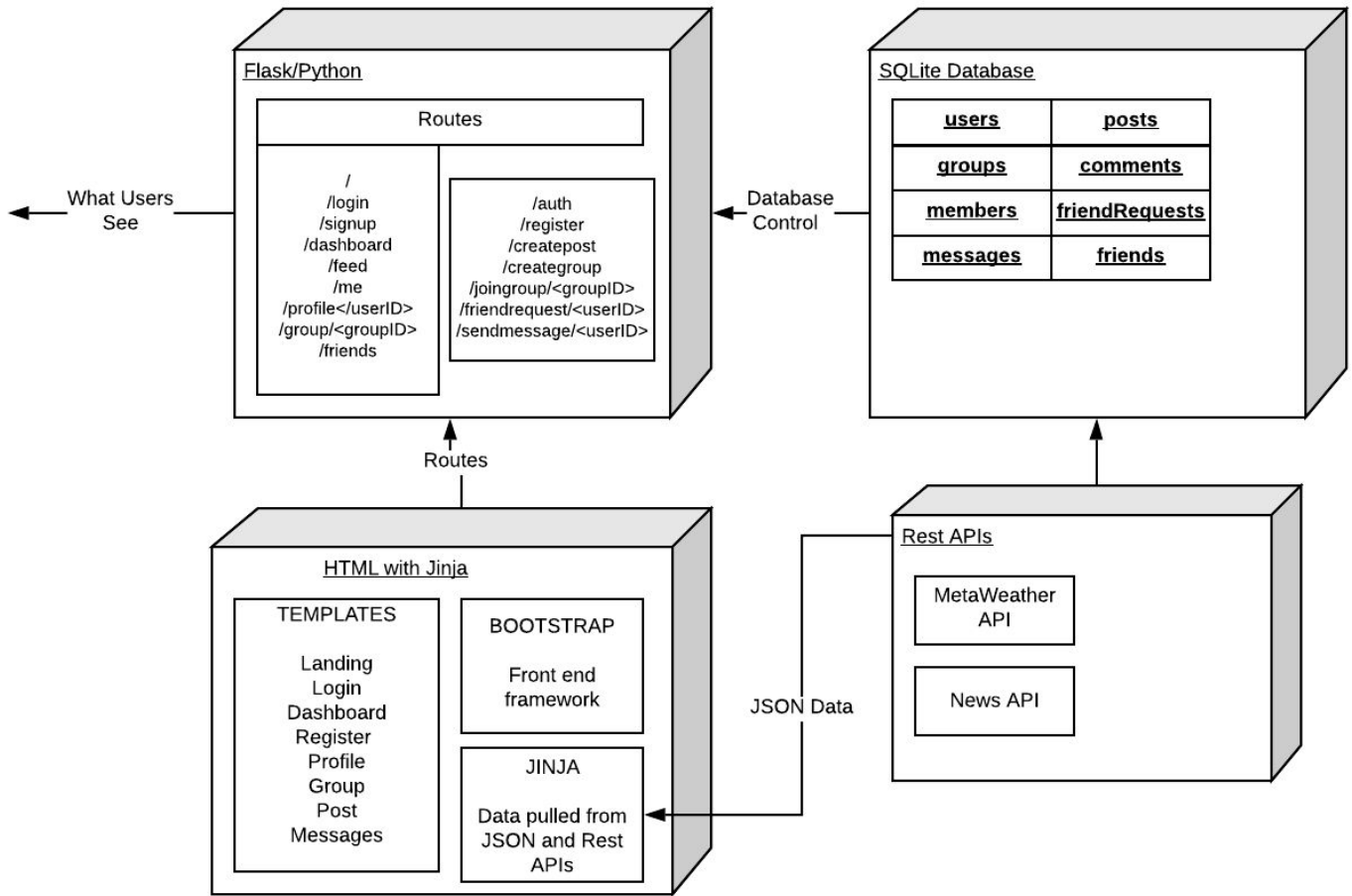
List of APIs

- 1) MetaWeather API: <https://www.metaweather.com/api>
 - a) *Quota*: unlimited
 - b) No Key Required
- 1) News API: <https://newsapi.org/>
 - c) *Quota*: 1,000 requests per day
 - d) Free Key Signup with email and password

Site Map:



Component Map:



Roles

- > Jude Rizzo (JR): Project Manager, Director of Authentication
- > Kevin Cai (KC): communities and Post Builder
- > Kazi Jamal (KJ): Messages and Friend Manager
- > Ahmed Sultan (AS): Dashboard and Feed Developer

I. Minimum Viable Product

- A. Authentication: (JR) Manage registering new users, and authenticating users when they want to log in.
- B. Profiles: (JR) Will display the user's information and posts as when another user is viewing the user's page
- C. Communities: (KC) Will be making the pages where posts for a community will be shown, as well as the creation and deletion of communities
- D. Posts: (KC) Will be creating the layout ability to create and delete posts for public and community posts, as well as the ability to comment on them
- E. Messages: (KJ) Will create the ability to send messages to people
- F. Friends: (KJ) Will create the friends list and ability to send friend requests
- G. Dashboard: (AS) Will display proper information on the dashboard
- H. Feed: (AS) Will Create the feed where users will see various posts from their communities and friends

II. Extra Features

- A. Implementation of the spectator API (AS)
- B. Likes on posts and comments (KJ)
- C. Notifications in the top right corner when you log in (JR)