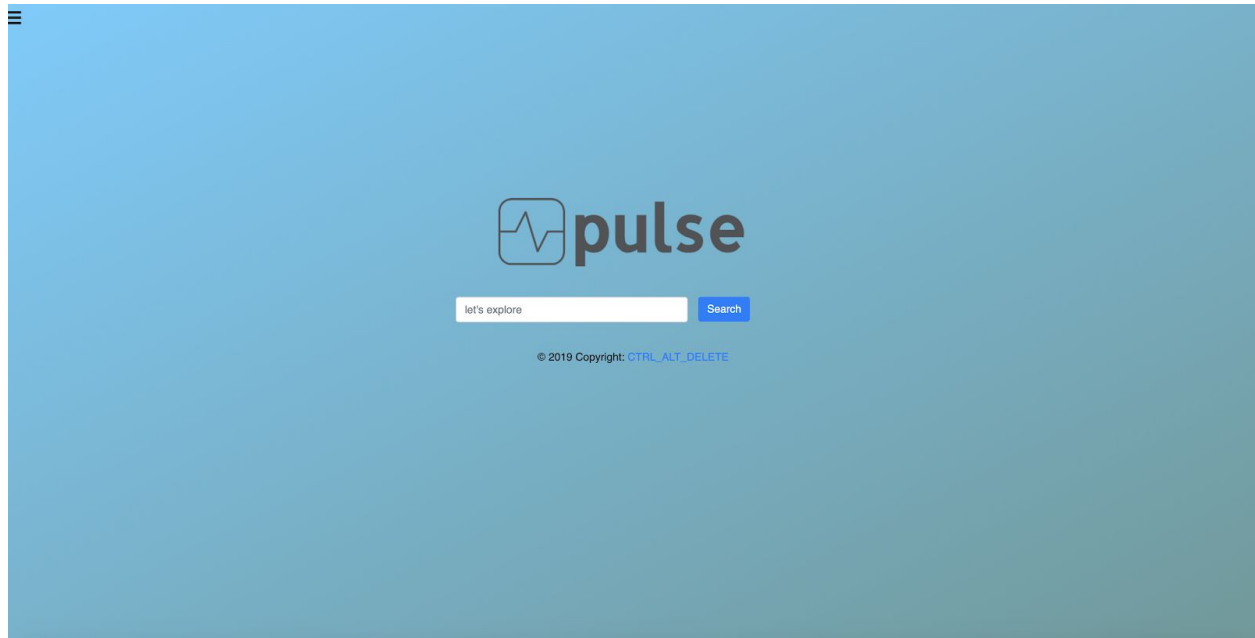


Project Milestone 6

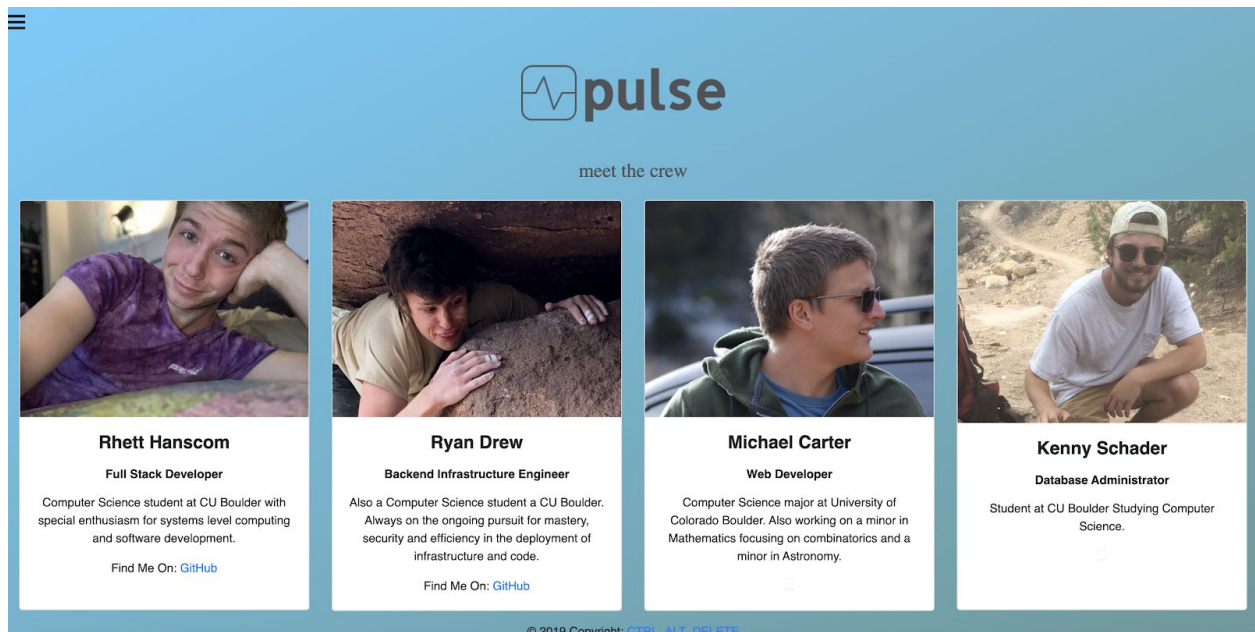
Group 112-5
Rhett Hanscom
Ryan Drew
Michael Carter
Kenny Schader

Title: Pulse

Link to live site: <https://csci-3308-pulse.herokuapp.com/>



Team: Rhett Hanscom, Ryan Drew, Michael Carter, Kenny Schader



Tools:

Youtube/Google API - 5 - very easy to use

Reddit API - 4 - not as easy to use as google's youtube api

Twitter API - 4 - Would be 5 if not for the cap on the number of tweets able to be pulled per day.

Chart JS - 5 - JavaScript Library - makes beautiful graphs!

Django - 5 - Great python framework for building websites. The admin and database features were incredibly easy to use and I truly enjoyed working with this service tremendously.

TextBlob - 4 - Text analysis python library. Very easy to use, though can be confused by the nuances of social media.

Tweepy - 5 - Twitter python client - Super easy to use, I loved it.

Bootstrap - 5 - HTML framework. How could anyone build a website without this?

Apple - 5 - Computer hardware. We all used them to create this project, they are great computers.

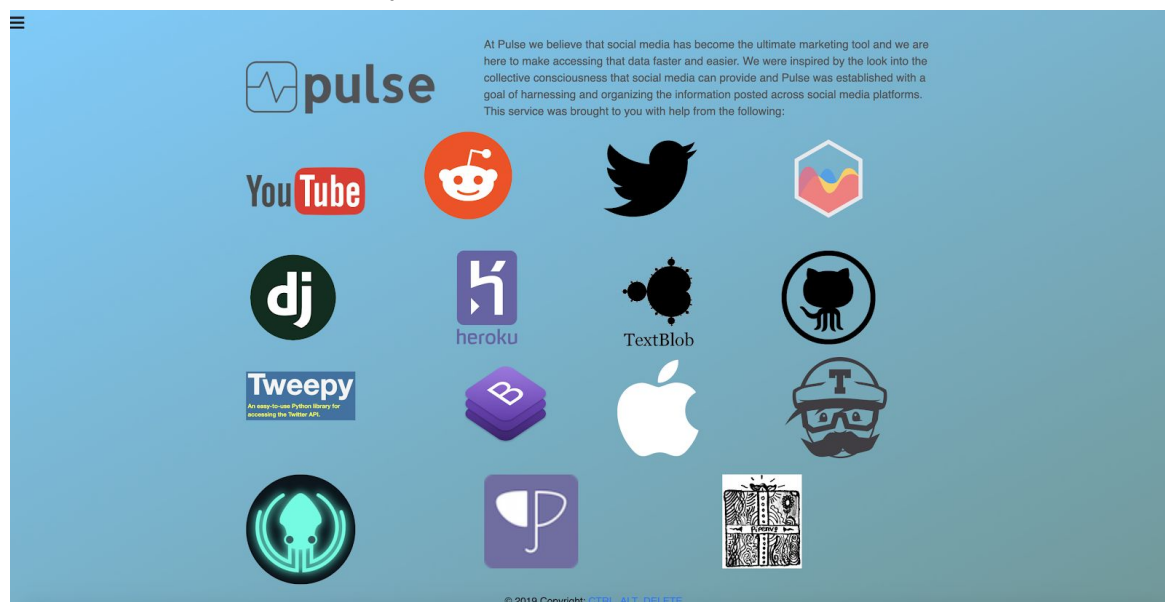
Travis CI - 5 - Amazing free solution for CI/CD pipeline implementation. Integrates beautifully with GitHub and Heroku

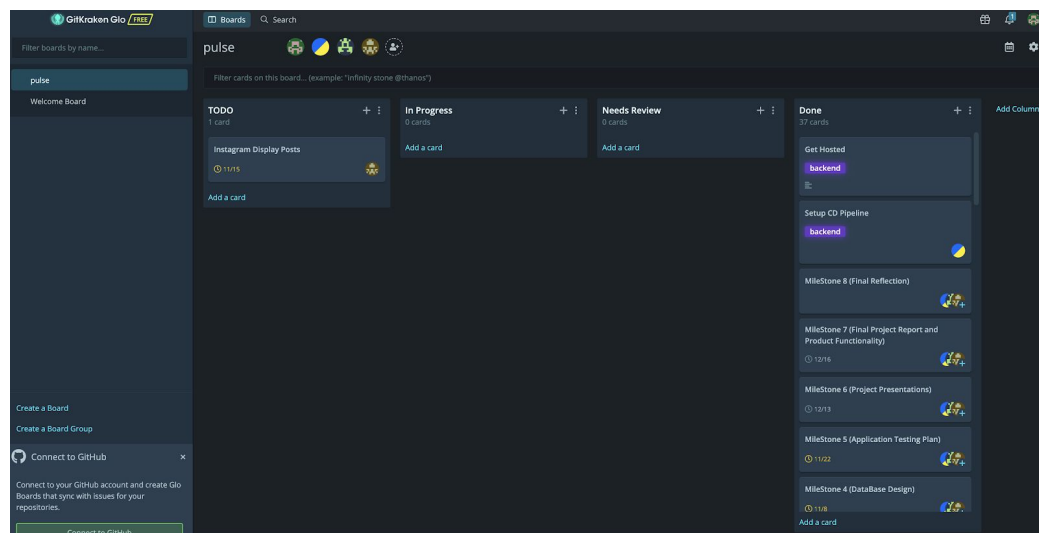
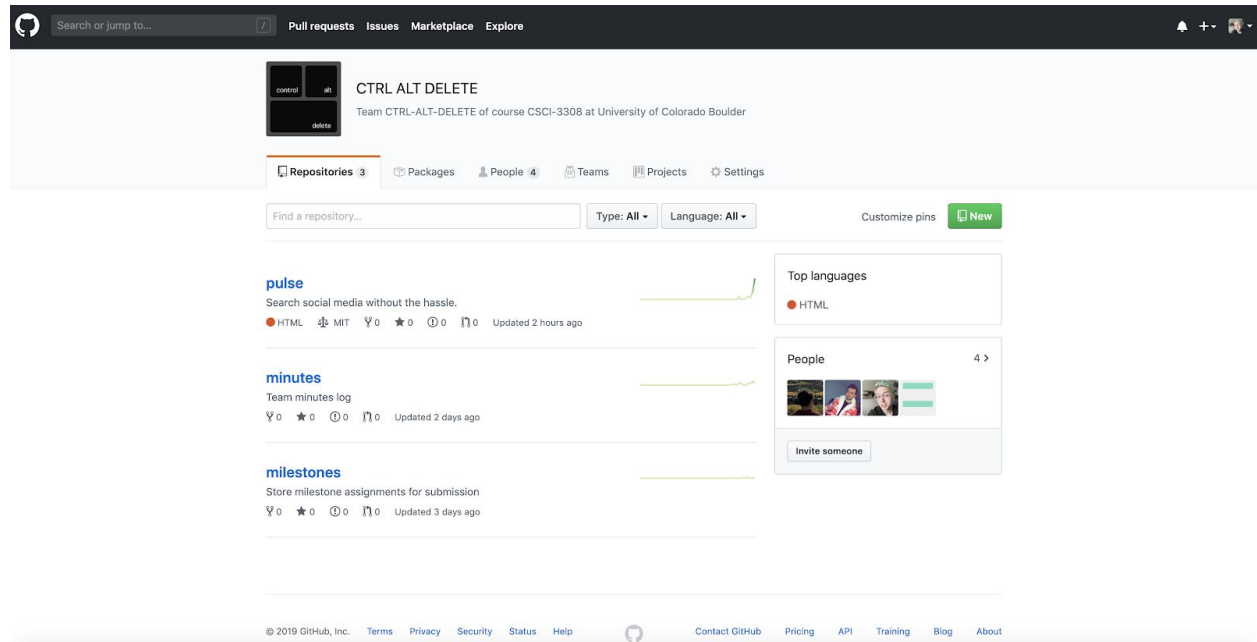
GitKraken - 5 - Provides everything we need for a Kanban board, wish we had more opportunity to use this to its full extent.

Heroku - 3 - Pretty darn awesome cloud hosting provider, extremely easy to use and setup.

Only two complaints are: (1) Our postgresql app is hosted and exposed *publicly* on AWS which means anyone on the internet can touch it if they get a hold on its external IP, (2) lots of really useful features cost money. We weren't able to use a custom domain with HTTPS support and running unit tests in our CD pipeline isn't free.

GitHub - 5 - I mean, how can you complain about GitHub?





Methodologies -

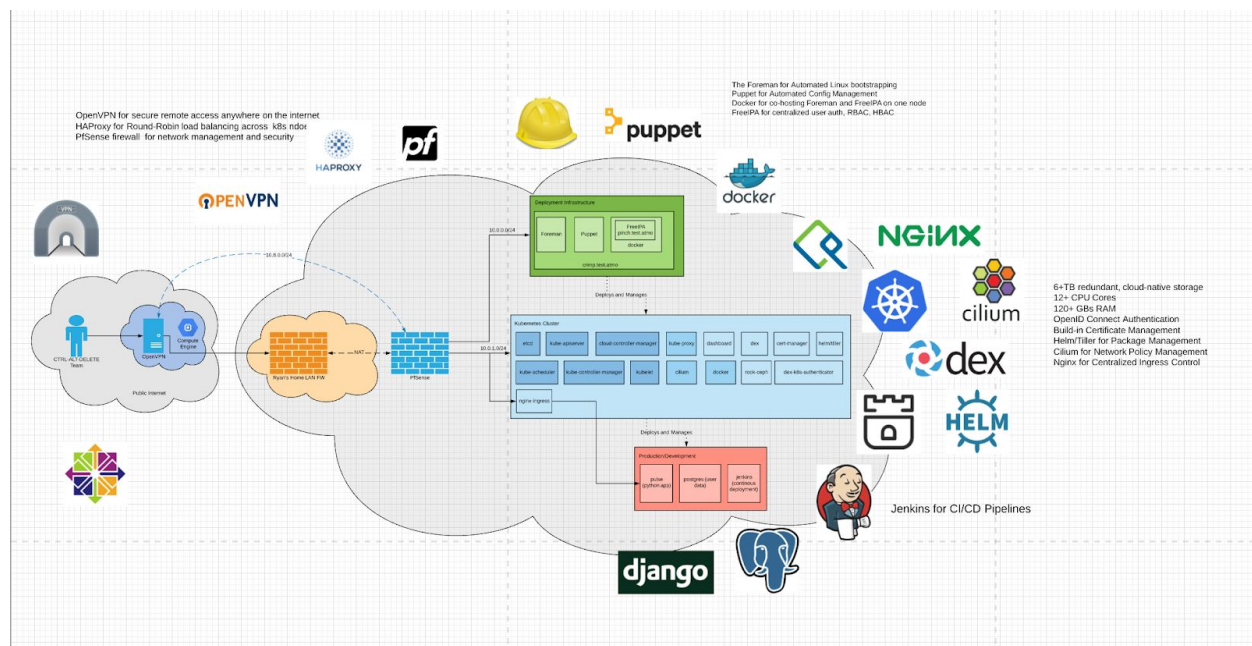
Kanban Boards - We used a Kanban board to track our TODO lists and progress over time. We were all able to see what we were each working on and use it to store/communicate our next steps on the project.

Agile/Waterfall - We started out using a very Agile style, i.e. we compiled a list of features and started knocking them out one by one over time, checking in each week. As the semester went on however we transformed more into a Waterfall style, as we each knew what we needed to do it and it was just a matter of getting the work done on time.

Challenges -

Rhett - we had previously been interacting with Twitter data through a python client called Twint and machine learning through PySpark, but the combination was too slow and ultimately we

Ryan - I had to learn and implement 13 open source projects to setup our internal Kubernetes cluster: OpenVPN, PfSense, HAProxy, The Foreman, Puppet, Docker, FreeIPA, Kubernetes, Rook, Cilium, dex, dex-k8s-authenticator, Helm/Tiller, Nginx Ingress Controller. I eventually got the cluster setup and working, however in all its awesome glory, I had no idea if it was secure or stable. I didn't feel comfortable hosting our site on the cluster unless the cluster was setup *the right way*- secure, efficient, stable- but I'll need months more research to go from *It's working!* to *It's working and it will continue to work*. This is why I eventually just popped our project up on Heroku.



<https://www.lucidchart.com/invitations/accept/deeb19f2-d1d7-4807-8f95-bff9899e9b6f>

Demo -

searched for 'demo'. new search?

Twitter

SAUCE900387
@sauce900387

GET FIFA 20 Demo #PS4share
youtu.be/OCuKJ6gTDn4

1:56 PM · Dec 5, 2019

See SAUCE900387's other Tweets

Hugo Fearnley
@HugoLabour

Yesterday we held a demo outside #Scarborough Hospital in support of #NHS staff and against #privatisation. Michael, a recently retired cancer specialist has an important message for you. Please watch and share. #HandsOffOurNHS #SaveOurNHS #GE2019 #VoteLabour #VoteHugo #Whitley pic.twitter.com/Rv2t9my6jj

263 · 3:18 AM · Dec 5, 2019

279 people are talking about this

Reddit

When does The demo come out someone pls let me know

When is the demo out uk time?

r/FIFA · deanoyazz · 2m ago
4 points · 10 comments

Demo is out!

YouTube

Analytics

Tweet Sentiment Analysis

Positive

Negative

Neutral

Positive

50.0%

Negative

0.0%

Neutral

50.0%

10 of Twitter's most relevant post containing 'demo' were analyzed to calculate sentiment scores.

© 2019 Copyright: CTRL_ALT_DELETE

Django administration

WELCOME, RHETT HANS COM. VIEW SITE / CHANGE PASSWORD / LOG OUT

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups

+ Add

Change

Users

+ Add

Change

PULSE_SEARCH

Searchs

+ Add

Change

USERS

Profiles

+ Add

Change

Recent actions

My actions

michael

User

Select search to change

ADD SEARCH +

Action: 0 of 25 selected

<input type="checkbox"/>	SEARCH
<input type="checkbox"/>	demo
<input type="checkbox"/>	never gonna give you up
<input type="checkbox"/>	yaks
<input type="checkbox"/>	veganism
<input type="checkbox"/>	veganism
<input type="checkbox"/>	coffee
<input type="checkbox"/>	these are
<input type="checkbox"/>	my
<input type="checkbox"/>	searches
<input type="checkbox"/>	my search
<input type="checkbox"/>	misterbubz
<input type="checkbox"/>	misterbubz
<input type="checkbox"/>	misterbubz
<input type="checkbox"/>	misterbubz
<input type="checkbox"/>	misterbubz
<input type="checkbox"/>	kanye west
<input type="checkbox"/>	misterbubz
<input type="checkbox"/>	misterbubz
<input type="checkbox"/>	warren2020