

FloraFauna


Discussion 1E: Grace Chen, Brandon Kam, Ethan Spradlin, Angela Yang, Jacob Zhi

Background

- A web-based application used to keep track of local flora and fauna species within a given geographic area.
- Purpose: To have easily accessible, crowdsourced wildlife population data and tracking for researchers and hobbyists alike.
- Users post and interact with sightings (pictures) of flora and fauna

FloraFauna

#FM0G0WTW9ITSndPxQCb **Sialia mexicana** jacob 2022-6-2



OFFICIAL ANSWER

0 **Sialia mexicana**
Submitted by coolmod

0 **Sitta canadensis**
Submitted by jacob

0 **Setophaga palmarum**
Submitted by coolmod

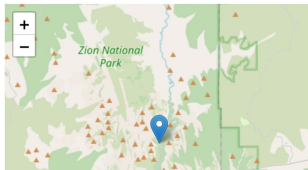
-1 **Cyanocitta cristata**
Submitted by jacob

Suggest Species...

Comments

jacob 2022-06-03T04:21:35.552Z

Wow! What a pretty bird




FloraFauna


Hello, coolmod [Profile](#) [New Post](#) [Log Out](#)

*Latitude... *Longitude... zoom level... Species...


Junco hyemalis 2 votes
by jacob on 2022-6-2




Sciurus griseus 1 votes
by jacob on 2022-6-2

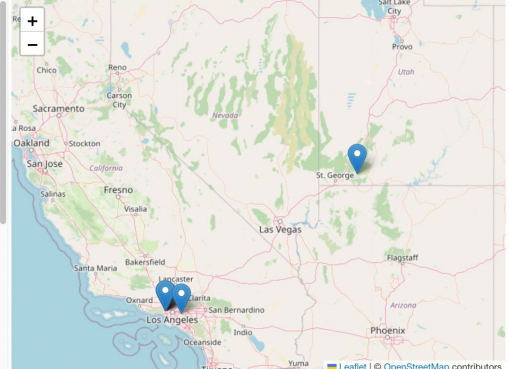


Squirrel 1 votes
by foobar on 2022-6-2



Sialia mexicana 1 votes
by jacob on 2022-6-2

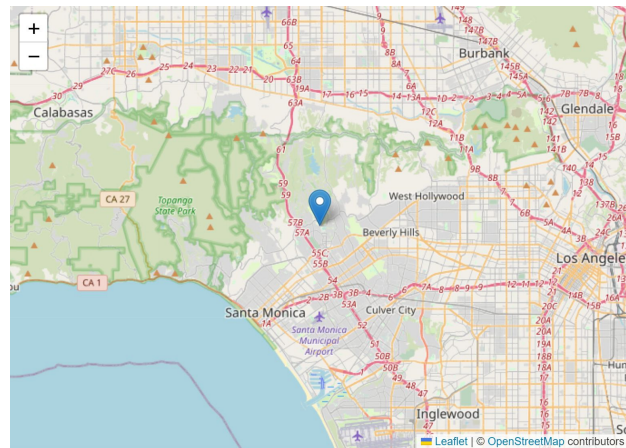
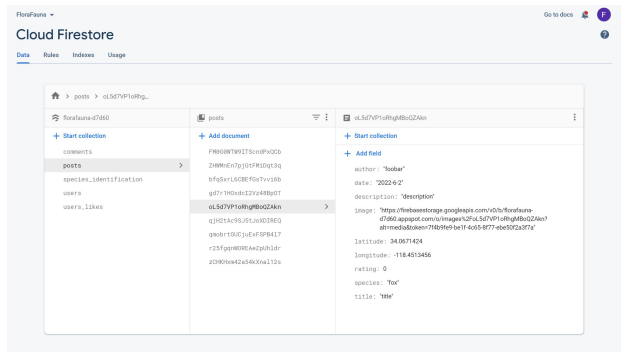




Leaflet | © OpenStreetMap contributors

Implementation Details

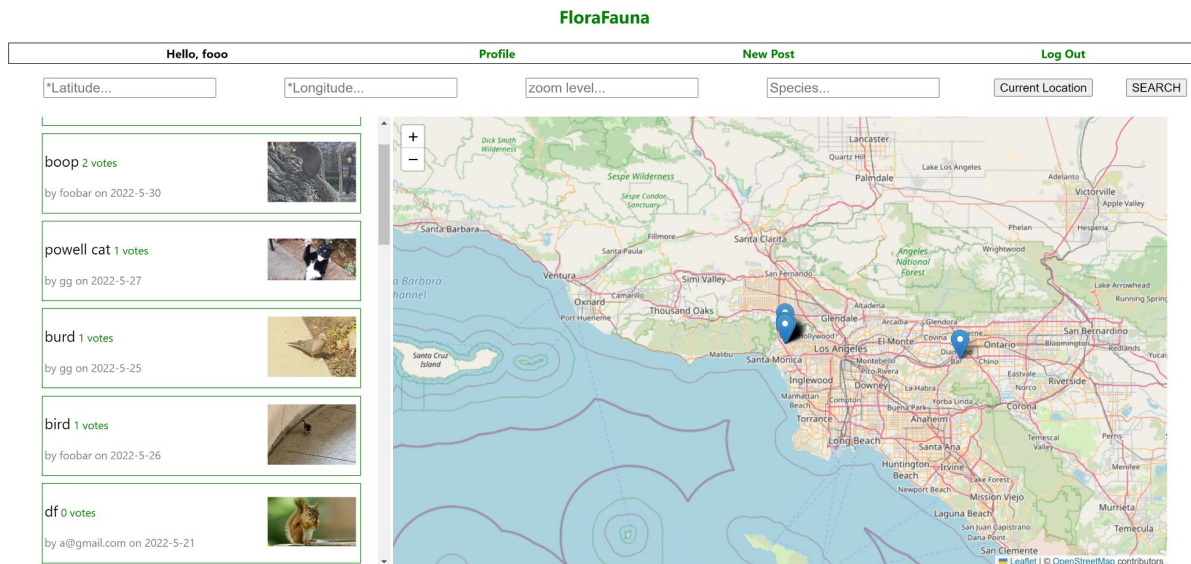
- **Tech Stack:**
 - Firebase
 - React
 - Node.js
- **React-leaflet**
- **Firebase**
 - Firestore
 - Authentication
 - Storage



Feature 1 - Display Dynamic Data

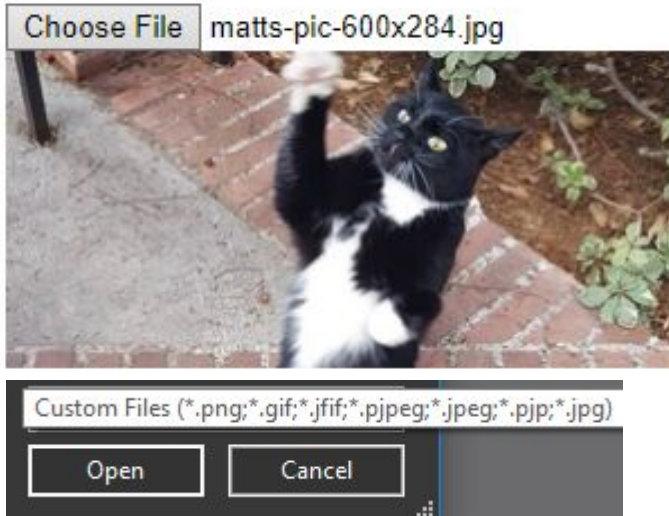
Dynamic Map with animal sightings distribution, filtered by location and species.

- Dynamic Sightings
- Intuitive interface



Feature 2 - Upload data

Add Image:



Choose File common.rpf

Please upload image under 20mb

Species:

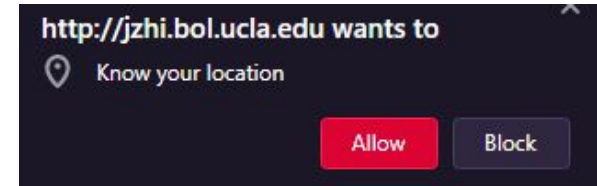
Powell cat

Lat and Long:

34.0738074 -118.4526425

Get Current Location POST

- Navigation geological function
- Input checks avoids undefined behavior
- Checks if logged in



Feature 3 - Search through data

Find Community Sightings:

34.0738303 -118.4526289 3

fox

Get Current Location

SEARCH

- Queries sent to fetch from firebase
- Zoom level indicates lat/long range
- Results refresh upon map interaction

/map/34.0738058/-118.4526472/3/fox

*Latitude...

*Longitude...

zoom level...

Species...

Current
Location

SEARCH

fox 0 votes

by foobar on 2022-6-2



Feature 4 - Like and commenting

- Like/Dislike Toggle
 - Posts
 - Species Identifications
 - User statistics
 - Keeps track of previous votes
- Comments
 - Records date and poster
- Must be logged in



Comments

Submit

foo 2022-06-01T07:44:27.125Z

:D

bkam 2022-06-01T07:43:31.677Z

comments go here



#UpkFbAUIB9sfUCm5MLC1

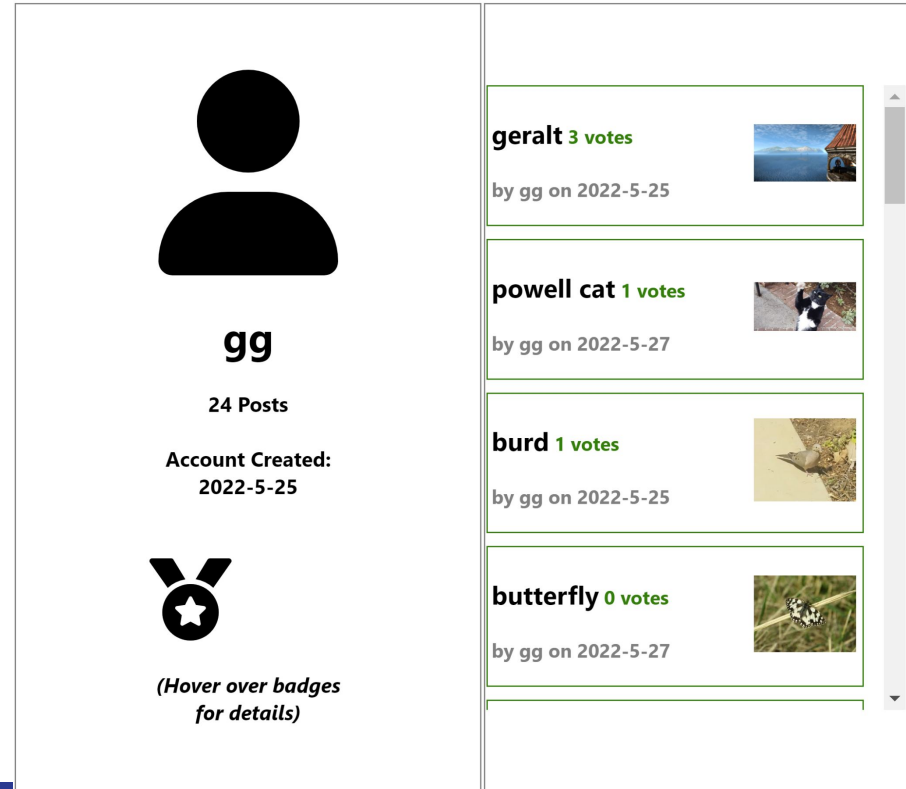
powell cat

gg

2022-5-27

Feature 5 - User Profile with Achievements


- Profile page
 - Username
 - Number of posts
 - Posts
 - Creation date
- Achievement statistics as badges
- View others' profiles from their posts



Feature 6 - Species Identification System

- Separate from the normal comment section
- Display official identification of the species
 - 3 Votes
 - Moderator endorsed
- Associates every vote with the user
- Keeps track of who is moderator

OFFICIAL ANSWER

   0 **powell cat**
Submitted by foobar

   1 **asdf**
Submitted by bkam

   0 **test**
Submitted by bkam

   -1 **aaaaaaaaa**
Submitted by bkam

Suggest Species...

Suggest