

SkyShare

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A platform dedicated to showcasing * the best space photos * taken by people from all across the country!







Upload their best space photos

with the **location** where it was taken



Connect with fellow space enthusiasts

by **following** other accounts



View NASA's photos with a simple click

conveniently accessible via the nav bar







Project Tracker: GitHub

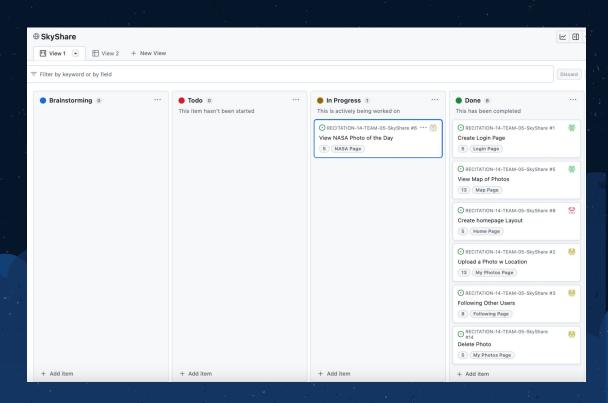


How useful was this?



4/5 stars: useful

- Clear & organized
- For our group of 4, helpful but not necessary



· VCS repo: GitHub



How useful was this?



5/5 stars; extremely useful

- Very organized
- Great for collaboration and merging code
- Easy to track contributions and view past edits



0	jenniferrkimm added lab13 screenshot		e03683e 2 days ago	To commits
	RECITATION-14-TEAM-05-SkySh	Second time to sumbit code		5 days ago
	all project code&components	Homepage Beautification		3 days ago
	meeting_logs	added Apr 25th meeting mins		3 days ago
	milestoneSubmissions	added lab13 screenshot		2 days ago
	wireframes	wireframes		2 weeks ago
	README.md	updated readme w basic info		3 weeks ago

Database: PostgreSQL



How useful was this?



5/5 stars; extremely useful

```
DROP TABLE IF EXISTS users CASCADE;

CREATE TABLE IF NOT EXISTS users (

user_id SERIAL PRIMARY KEY NOT NULL,

username VARCHAR(50) unique,

password CHAR(60) NOT NULL
);
```

```
DROP TABLE IF EXISTS followers CASCADE;
CREATE TABLE IF NOT EXISTS followers (
    user_id INT NOT NULL,
    following_id INT NOT NULL,
    PRIMARY KEY (user_id, following_id),
    FOREIGN KEY (user_id) REFERENCES users(user_id),
    FOREIGN KEY (following_id) REFERENCES users(user_id))
```

```
DROP TABLE IF EXISTS states CASCADE;
CREATE TABLE IF NOT EXISTS states (
   state_id SERIAL PRIMARY KEY NOT NULL,
   state_name VARCHAR(200),
   lng DECIMAL NOT NULL,
   lat DECIMAL NOT NULL
);
```

Allowed us to:

- store user info
- query photosassociated w/ each user
- implement the following feature
- display photos taken at x location on the map

```
DROP TABLE IF EXISTS photos CASCADE;

CREATE TABLE IF NOT EXISTS photos (

photo_id SERIAL PRIMARY KEY NOT NULL,

user_id INT NOT NULL,

photo_state VARCHAR(250),

photo_description VARCHAR(200),

photo_url VARCHAR(300) NOT NULL,

FOREIGN KEY (user_id) REFERENCES users(user_id)

);
```

IDE: VSCode



How useful was this?



5/5 stars; extremely useful

- Wrote all our code here
- Connected w GitHub repo





, Ul Tools: HTML, CSS, EJS

How useful was this?



4/5 stars; useful

- Each nav bar item is a page coded by an ejs file w/ HTML
 & CSS elements integrated
- **Bootstrap** for things like carousel & cards



Our nay bar:

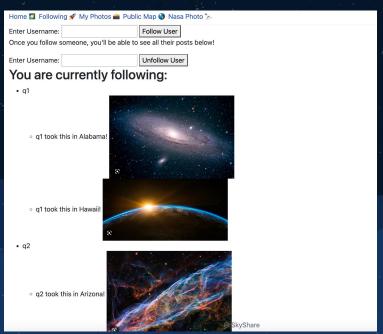
Home 🛂 Following 🚀 My Photos 📸 Public Map 🌖 Nasa Photo 🔭



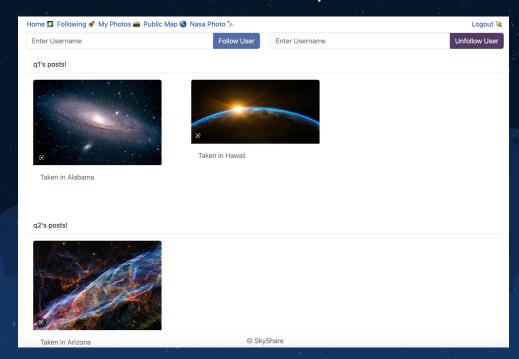
UI.Tools: HTML, CSS, EJS

Example: Bootstrap to generate a **card** for each followed users'

posts Before Bootstrap:



After Bootstrap:

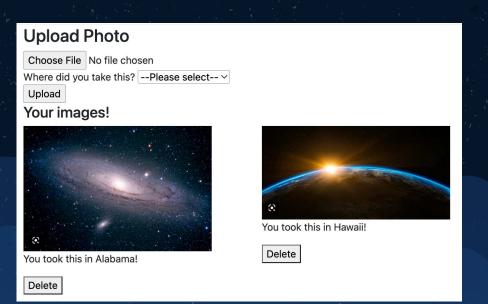


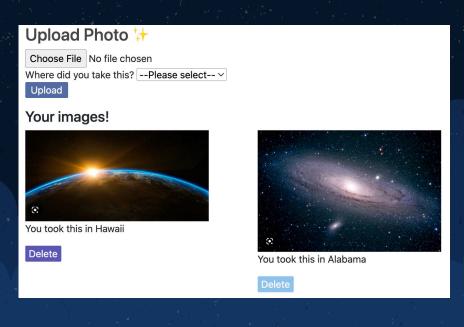
UI.Tools: HTML, CSS, EJS

Example: CSS to improve appearance of buttons on "My Photos" page

Before CSS:

After CSS:





Ul-Tools: HTML, CSS, EJS

How useful was this?



5/5 stars; extremely useful



The **Bootstrap profile card** organizes the profile of the user

It displays the user's username and underneath, utilizing EJS. fetches the two most recent images the user has uploaded.



UI.Tools: HTML, CSS, EJS

How useful was this?



5/5 stars; extremely useful

For the homepage, utilizing the **Bootstrap Carousel** allowed for the implementation of a slideshow of random images which are uploaded from those who you follow through utilizing EJS.









App. Server: NodeJS node® :



How useful was this?



5/5 stars; extremely useful



- Basically what makes our platform's features function
- Each user request is associated with GET and **POST API routes**





Děployment environment: localhost & azure Azure



How useful was this?



5/5 stars; extremely useful

Allows users to access the website





eployment environment

External API #1: Cloudinary



How useful was this?



5/5 stars; extremely useful

Purpose:

 Photo uploading + display photo on the page

How it works:

- Given a photo file, Cloudinary generates a url for it
- Store the url in photos table
- Display photo by passing in this url in the ejs file





Éxternal API #2: Google Maps



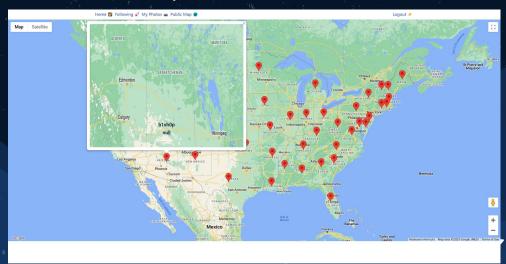
How useful was this?



5/5 stars; extremely useful



You can click on the red marker to view photos of the location.



eployment environment

External API #3: NASA





5/5 stars; extremely useful





- Generated Daily
- Detailed description



Home 🌠 Following 🚀 My Photos 📸 Public Map 🔇 Nasa Photo 🔭

gout 🔍

NASA Astronomy Picture of the Day

Flat Rock Hills on Mars

2023-05-0

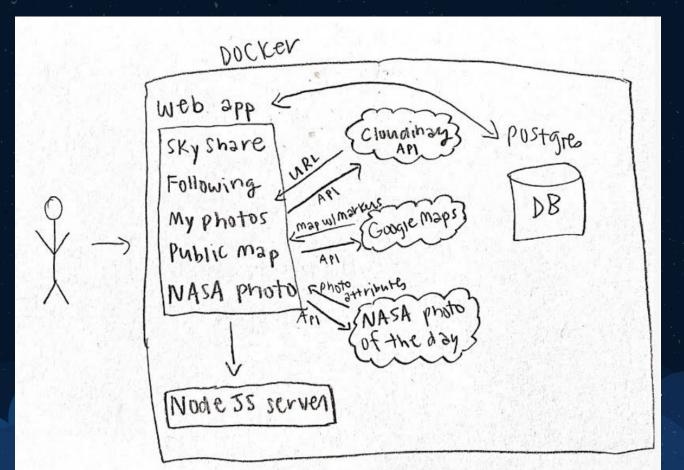


Why are there so many flat rocks on Mars? Some views of plains and hills on Mars show many rocks that are unusually lift when compared to rocks on Earth. One reason for this is a process that is common to both Mars and Earth: resoion. The earbon-clioxide wind on Mars can act like sandpaper when it blows around gritly Martian sand. This sand can create differential erosion, smoothing over some rocks, while wearing down the tops of other long-exposed stones. The featured image capturing several hills covered with flat-topped rocks was taken last month by NASA's Curiosity Rover on Mars. This robotic rover has now been rolling across Mars for the years and has helped uncover many details of the wet and windp yas to Fath's planetary neighbor. After kaing this and other images, Curiosity carefully navigated stones and slippery sand to climb by Marker Band Valley.

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Architecture Diagram







- >> Peer Code Reviews (5/5 stars for usefulness):
 - Before merging to main, other members looked over the code

- * Agile (5/5 stars for usefulness):
 - Broke up project into smaller tasks
 - Worked on implementing small functional features in weekly phases
 - Met every Wed/ Fri to discuss updates w the team, met TA every Tues









Google Maps longitude, latitude

Problem:

Google Maps API requires

longitude & latitude coordinates

to display a marker at that place

```
csci_3308 > RECITATION-14-TEAM-05-SkyShare > all project code&components > init_data > = insert.sql
      insert into states(state_name, lat, lng) Values('West Virginia',
                                                                          39.000010. -80.500001):
      insert into states(state name, lat, lng) Values('Vermont', 44.000010, -72.699997);
      insert into states(state_name, lat, lng) Values('Texas',
                                                                  31.000010, -100.000010);
      insert into states(state_name, lat, lng) Values('South Dakota',
                                                                          44.500001, -100.000010);
      insert into states(state_name, lat, lng) Values('Rhode Island',
                                                                          41.742325, -71.742332);
      insert into states(state name, lat, lng) Values('Oregon',
                                                                  44.000010, -120.500001);
      insert into states(state_name, lat, lng) Values('New York',
                                                                      43.000010, -75.000010);
      insert into states(state name, lat, lng) Values('New Hampshire',
                                                                          44.000010, -71.500001);
      insert into states(state_name, lat, lng) Values('Kansas', 38.500001, -98.000010);
      insert into states(state name, lat, lng) Values('Nebraska',
                                                                      41.500001, -100.000010);
      insert into states(state_name, lat, lng) Values('Mississippi',
                                                                     33.000010, -90.000010);
      insert into states(state_name, lat, lng) Values('Illinois',
                                                                      40.000010, -89.000010);
      insert into states(state_name, lat, lng) Values('Delaware',
                                                                      39.000010. -75.500001):
      insert into states(state name, lat, lng) Values('Connecticut',
                                                                      41.599998, -72.699997);
```

Solution:

Only ask user to input the state of where the photo was taken.

In our sql file we inserted 50 values of the long/lat of the middle of each US state, so each state has 1 marker, and on this marker, we display the photos taken in that state





Demo!

