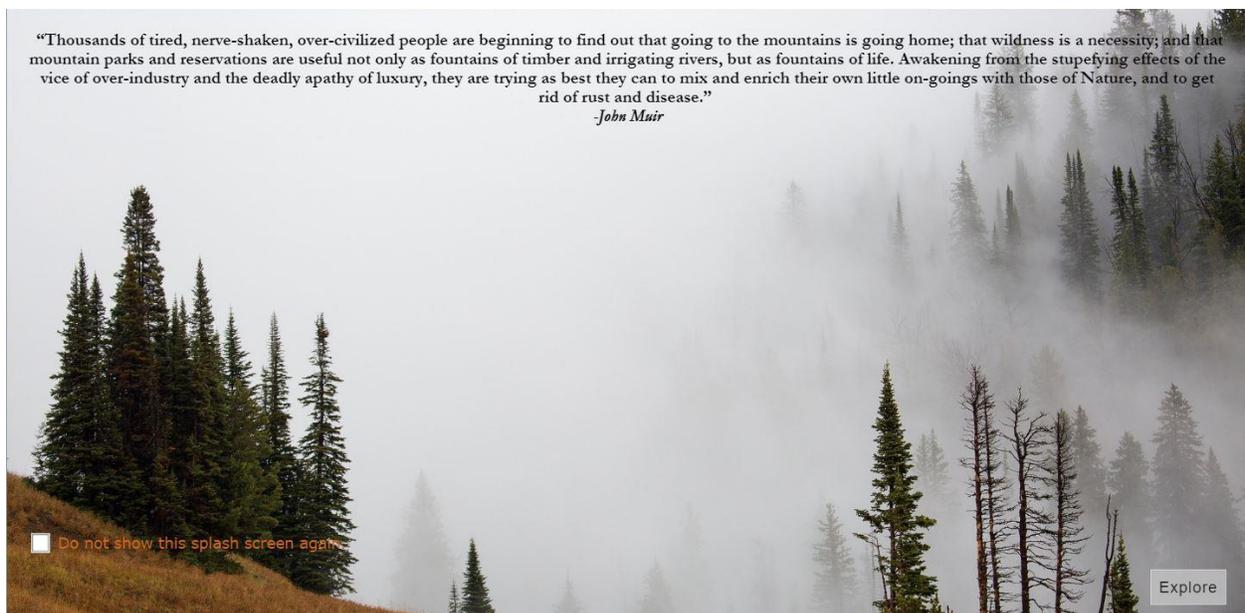


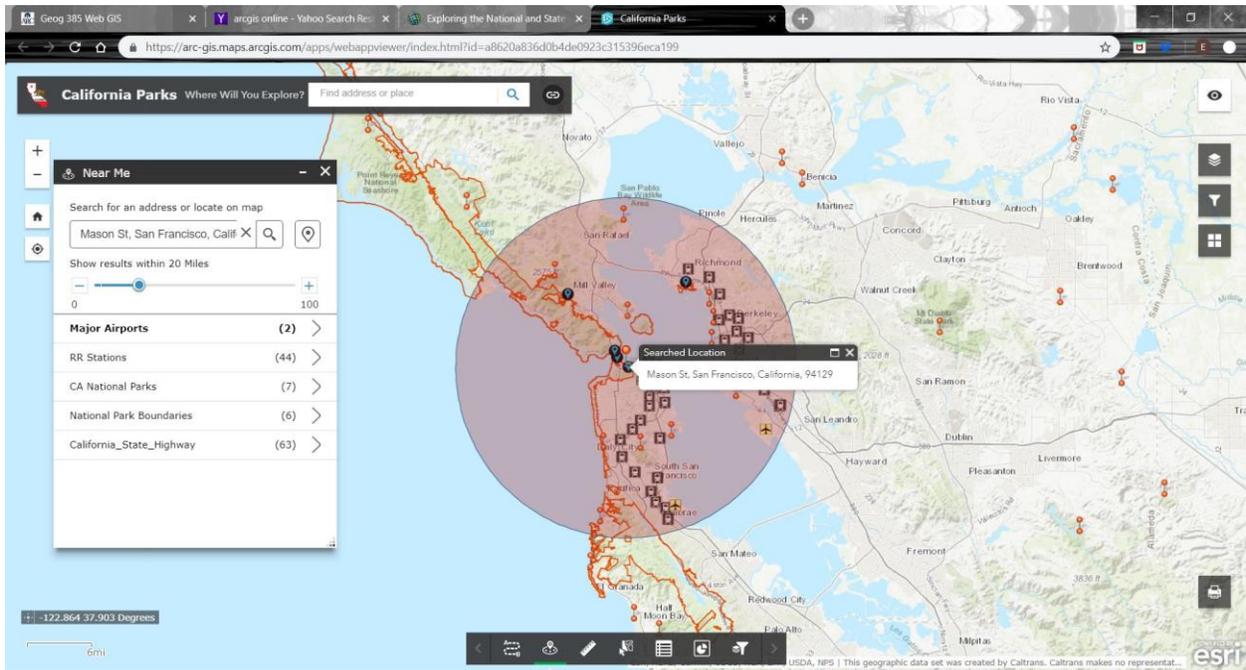
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Geog 385, Web GIS
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All too often people get stuck in their weekly routines and forget to take time to explore the beautiful land that surrounds them. For my project I created a web map app that displays the National and State Parks available for exploring in the state of California. With over 30 National Parks and 280 State Parks, it would take roughly six years to visit a new park every week, although many parks are within close proximity to each other and can be visited in one day. The general idea of this app was to give the user a simple tool to start planning their next adventure of the great outdoors.

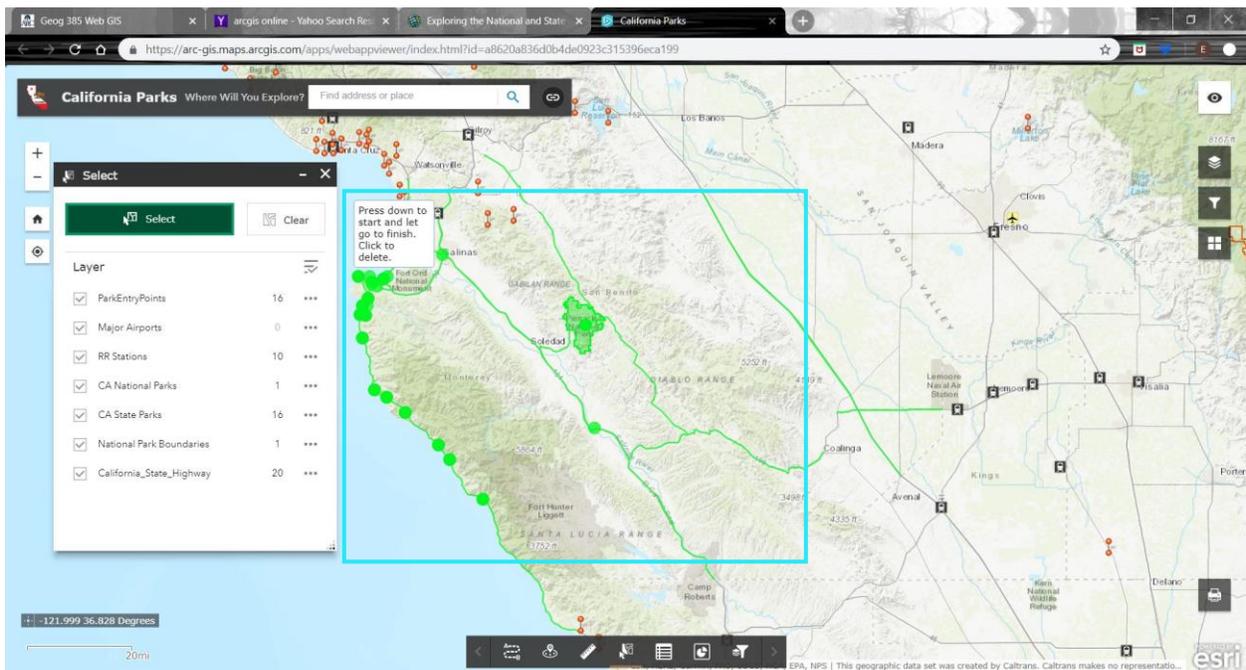
I wanted the app to be inspirational to the user and liked the idea of using the Splash widget to display one of John Muir's quotes about National Parks. I think it applies to all parks, whether it's a National Park, State Park or City Park, so long as people remember to get outside and take a deep breath.



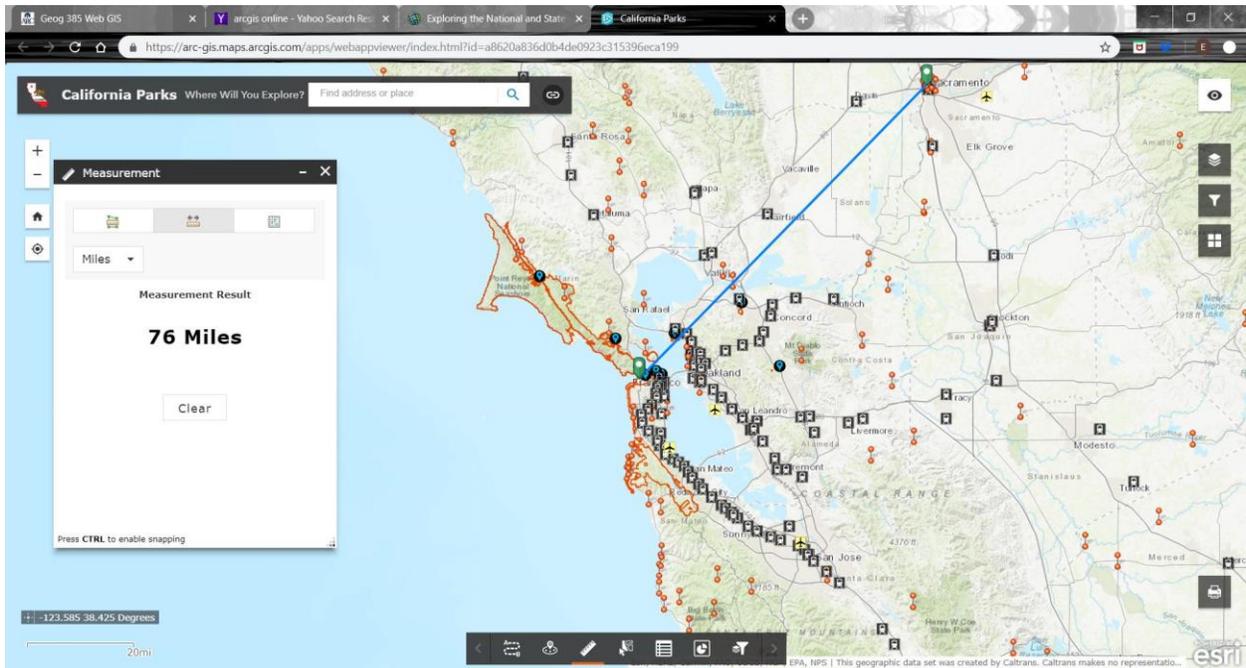
From the adventure seekers to the family trips, my app provides basic information about where the parks are located in proximity to your location, or starting point, and what major highways, transportation stations or airports are close by (Near Me widget).



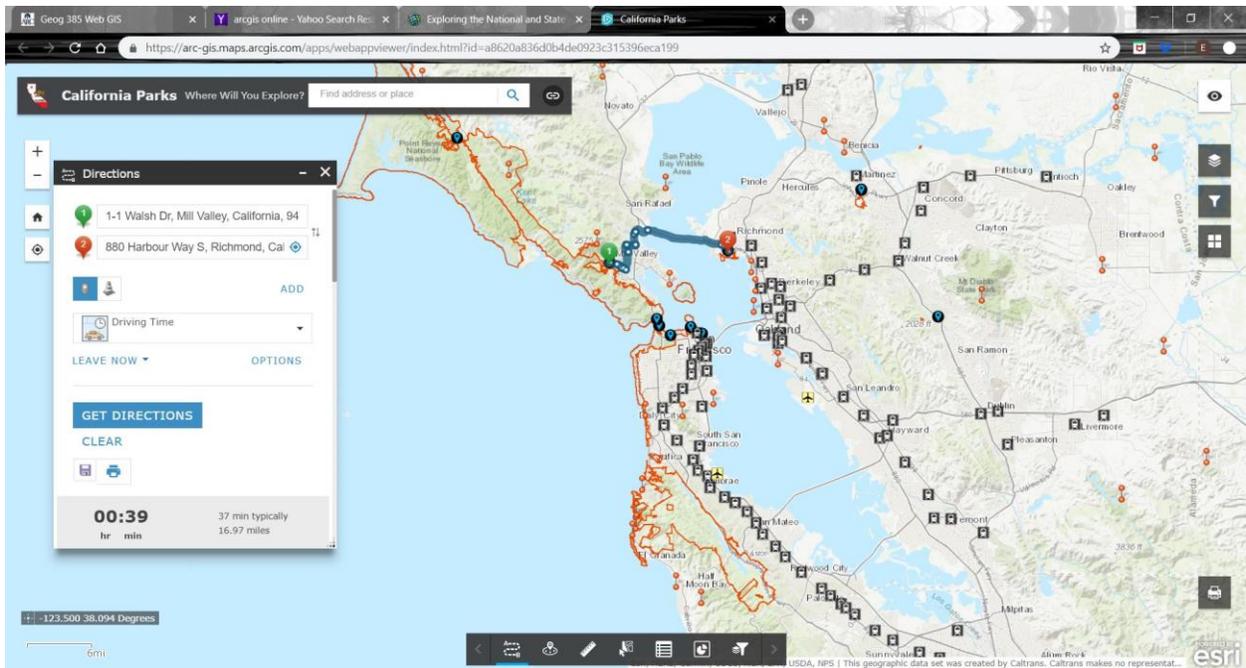
By using the Select widget, the user can draw a boundary around an area of interest to determine what parks, transportation stations, airports or highways might be closest to them.



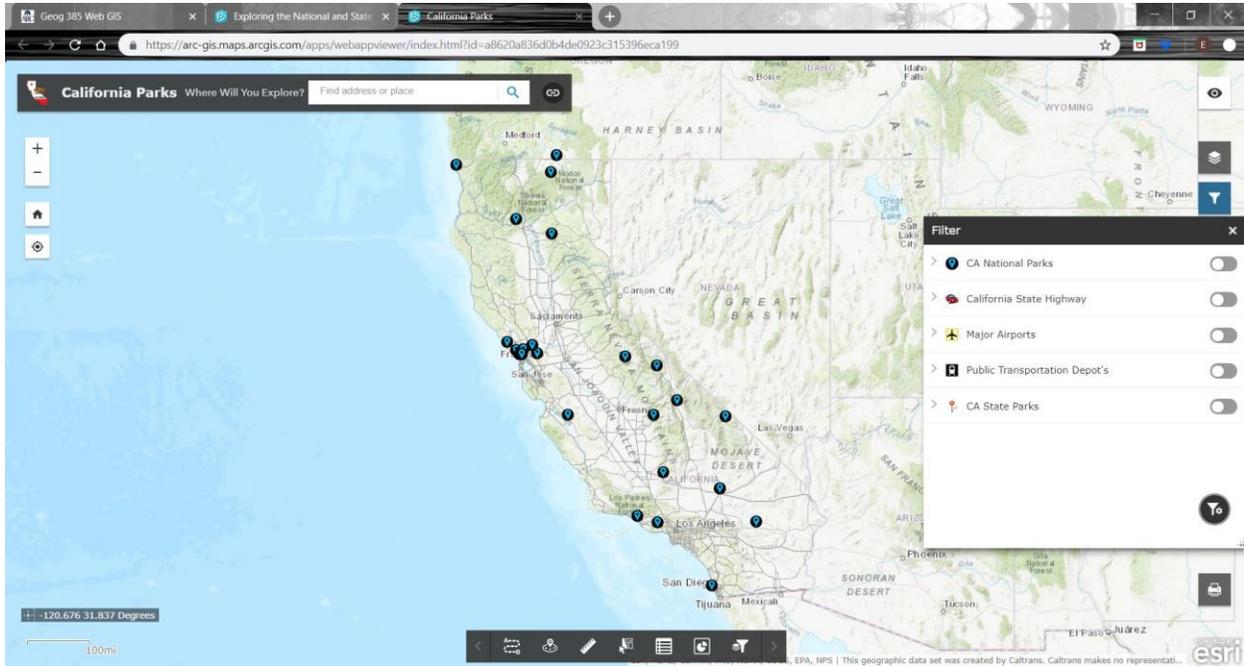
If spur of the moment adventure is your style, the Measurement widget allows you to determine the distance between two locations, or parks, to estimate the time it will get there.



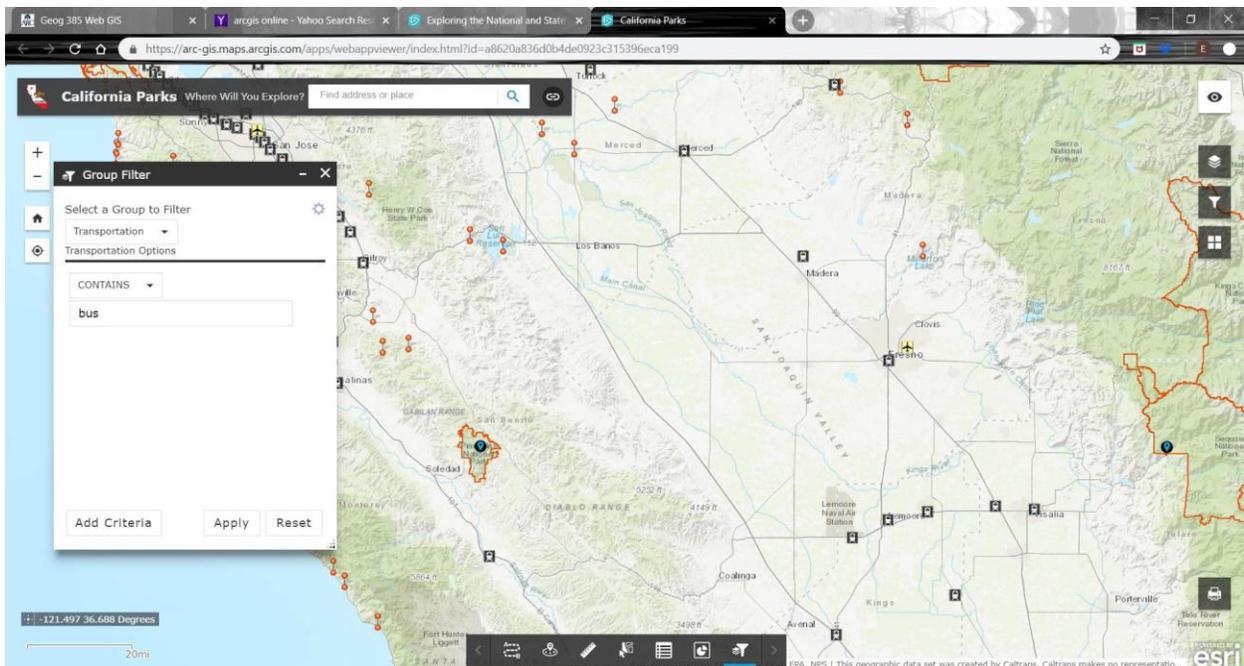
The Directions widget can then be used to provide directions to your next destination.



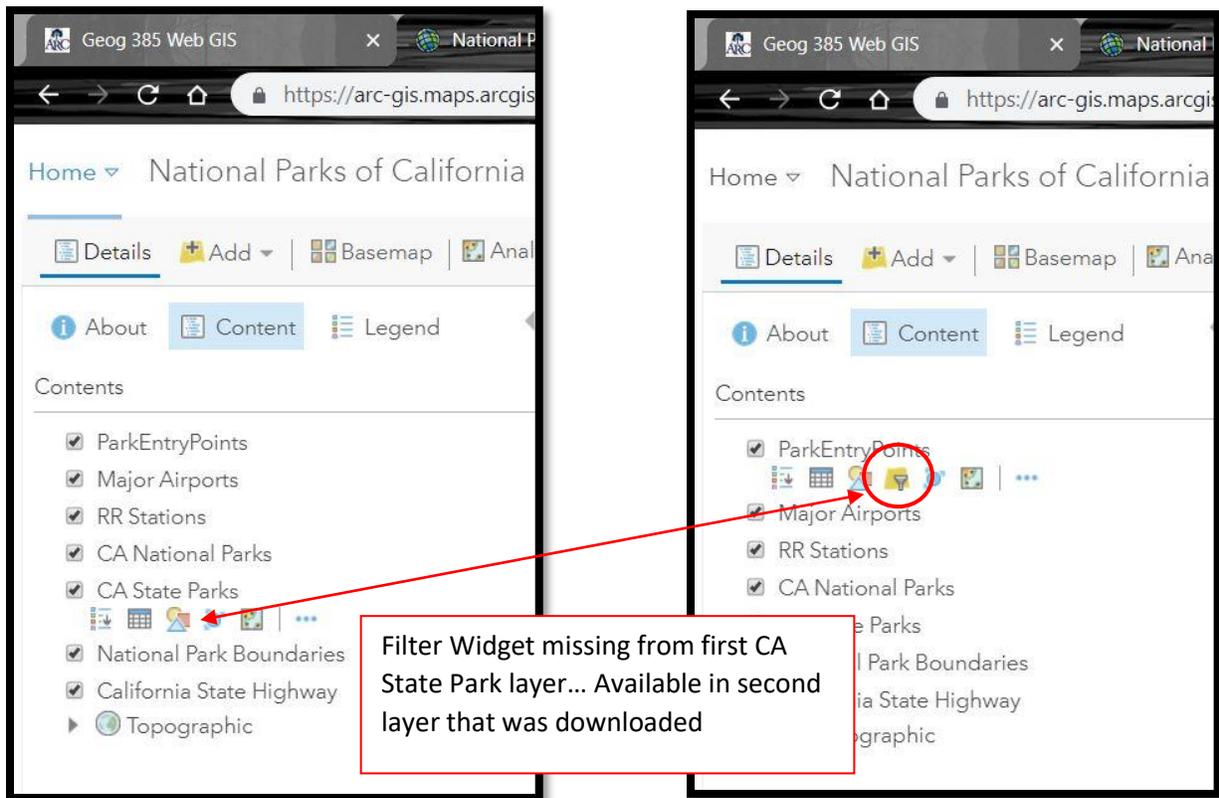
In addition to the directional and proximity widgets, there is also the Filter widget which allows the user to filter by the type of National Park or State Park or to display only certain highways to see what parks might be along a predetermined route. If the user is planning to fly in or use a train or bus, those locations can also be filtered down.



To complement the Filter widget, I've included a Group Filter widget that groups the Public Transportation Depot, Major Airports and California State Highway layers into a "Transportation" group. A second group called "California Parks" was created out of the National Park and State Park layers.



Initially, I was unable to include the State Park layers in any of the filter related widgets. I had downloaded the layer from the ArcGIS Online database and thought it was a trusted layer from the California State Parks Department. It displayed like a feature layer and worked like all of the other layers with the exception of filtering. After consulting Professor Jennings, we determined there was a restriction set on the layer by the developer that didn't allow the filter feature to be used. This was determined by looking at the layer on the map and noticing the filter icon was not present, as it was for all of the other layers. A second State Park layer was located and downloaded which contained the filter icon. After testing it in the app builder with the filter widget, I was able to have it recognized and deleted the original State Park layer.



For additional reference information I included the Attribute Table widget and an Infographic of the National Park types. The Infographic widget doesn't have much relevance but I liked the idea of displaying the National Parks in a chart so the user can see how many Parks there are to explore. I rounded out the Web App with a Print and Basemap widget and included the links to the National Park Service and California State Parks website in the App header which I customized to focus on the theme of exploring California.

ParkName	ParkAddress	ParkCity	ParkState	ParkZip	ParkType	ParkAvgFees	ParkWebsite
Alcatraz Island	Pier 33 Alcatraz Landing	San Francisco	California	94,111	National Park	37.25	https://www.nps.gov/alca/pl
Cabrillo	1800 Cabrillo Memorial Drive	San Diego	California	92,106	National Monument	15.00	https://www.nps.gov/cabr/pl
Castle Mountains	2701 Barstow Road	Barstow	California	92,311	National Monument	0.00	https://www.nps.gov/camo/p
Cesar E. Chavez	29700 Woodford-Tehachapi Road	Keene	California	93,531	National Monument	0.00	https://www.nps.gov/cech/pl
Channel Islands	1901 Spinnaker Drive	Ventura	California	93,001	National Park	0.00	https://www.nps.gov/chis/pl
Death Valley	328 Greenland Boulevard	Death Valley	California	92,328	National Park	0.00	https://www.nps.gov/deva/pl
Devils Postpile	Devils Postpile Access Road	Mammoth Lakes	California	93,546	National Monument	0.00	https://www.nps.gov/depo/p
Eugene O'Neill	205 Railroad Avenue	Darville	California	94,526	National Historic Site	0.00	https://www.nps.gov/euon/p
Fort Point	Marine Drive	San Francisco	California	94,129	National Historic Site	0.00	https://www.nps.gov/topo/pl
Golden Gate	Golden Gate Bridge	San Francisco	California		National Recreation Area	0.00	https://www.nps.gov/goga/p
John Muir	4202 Alhambra Avenue	Martinez	California	94,553	National Historic Site	0.00	https://www.nps.gov/jomu/p
Joshua Tree	74485 National Park Drive	Twentynine Palms	California	92,277	National Park	30.00	https://www.nps.gov/jotr/pla
Larsen Volcanic	38050 Hwy 36 E	Mineral	California	96,063	National Park	25.00	https://www.nps.gov/lavo/pla
Indian Wells	1 Indian Well HO	Tulare	California	96,134	National Monument	70.00	https://www.nps.gov/lave/nli

Type of National Park

Score: 182.50 (6.59%)

Legend: N/A, National Historic Site, National Monument

When I started creating this Web App I wasn't sure what to expect. I didn't have a clear idea of what I wanted to include so I started with two map layers, one that I created for the California National Parks, and the other being the National Park Boundaries. There wasn't enough information between these two layers to make the app interesting so I added the State Park, Airport and Public Transportation layers. The more I worked with the data, the quicker the purpose behind the app developed, which allowed me to become more invested in its development.

Overall I think my app was successfully created and I would like to continue to add new feature layers to it. The feedback I received from friends, family, coworkers and other students has been overwhelmingly positive, with suggestions for layers that I had never considered.