Weather Forecast Application



Rails version: Rails 5.1.4

Ruby version: ruby 2.3.3

Git version: git 1.9.4

Features:

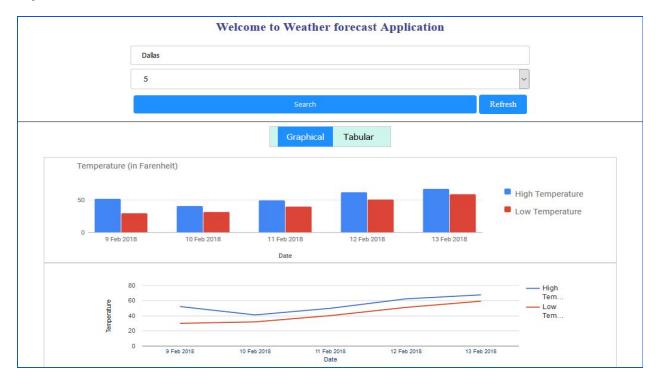
1. Enter location or address in text field and select number of days for which weather forecast you want to check.



2. Once you enter information, click search button.



3. Search displays information either in graphical or tabular form for selected number of days.



		Welc	ome to Wea	ather forec	ast Applicati	ion
	Dalla	5				
	5					V
		Refresh				
Date	Low Temp.	Summary:Ra			es rising to 80°F on	Thursday.
Contract of the Contract of th		mgn remp.	Hannarcy	Pressure	Wind Speed	Summary
9 Feb 2018	30.02	52.26	0.76	1015.06	6.63	Summary Mostly cloudy throughout the day.
9 Feb 2018	30.02	52.26	0.76	1015.06	6.63	Mostly cloudy throughout the day.
9 Feb 2018 10 Feb 2018	30.02 31.95	52.26 41.14	0.76 0.57	1015.06 1022.82	6.63	Mostly cloudy throughout the day. Mostly cloudy until evening.

Graphical information compares high temperature and low temperature for selected number of days using bar graph and line chart.

While, tabular information displays information about Low Temperature, High Temperature, Humidity, Pressure, Wind Speed and summary for that day.



Implementation:

1. Geocoder:

- Geocoder gem is used to get latitude and longitude of a given address/location.
- Geocoder.coordinates(address) returns array of latitude and longitude.

2. Dark sky API:

• Once we get coordinates based on location, we can call dark sky api to get information about weather for selected number of days.

3. Google charts:

• For graphical representation, I have used google charts to display Bar graph and Line chart.

Rspec:

1. With valid parameters

Checked whether application returns proper configuration_api, latitude, longitude, url and number of entries based on selected number of days. (for two locations - NY and Dallas).

2. With invalid parameters

Checked whether application returns error if address is not entered or number of days not entered.

What more can implement in an application:

- Dynamic updation of page using ajax for graphical and tabular information.
- We can populate address with city, state, country and user can select from that and get weather information.
- We can create migration for address which will store coordinates for an an address.
 Next time when we search for each address, we don't need to call geocoder, we can directly get the coordinates from a table.

Note: All the screenshots are present in the application's "assets/images/screenshots" folder.

Github link: git@github.com:AnaghaKelkar/weather_forecast_application.git