

ENERGOGOGO

By Abdur-Rahman Sharif



OVERVIEW

- **App Name:** EnerGoGoGo
- **App Description:** Locates nearby Electric Vehicle (EV) charging stations and provides helpful information about the station (address, charging connector, etc.). This app promotes the use of EVs by helping users find electric charging stations for their EVs, which encourages the use of clean and renewable energy source.
- **Track:** Youth Individual
- **Category:** Climate & Sustainability



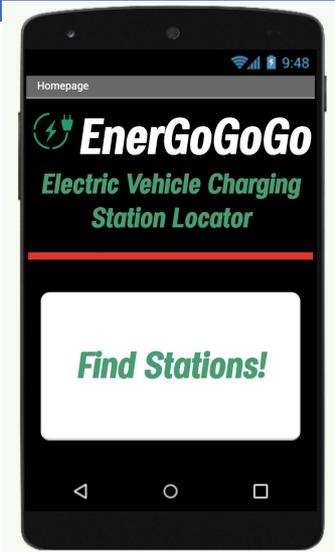
THEME

In 100 words or less, describe the problem that you chose to address, and why you were interested in solving it. Please note that this portion of your submission will be published if you are selected as a finalist or winner.

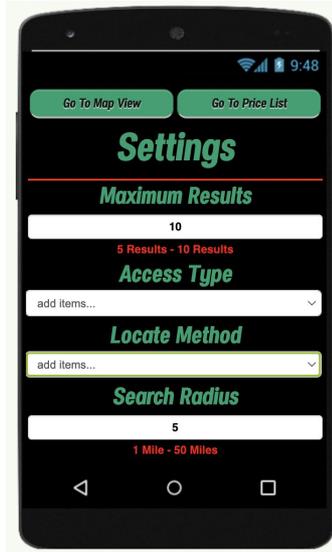
A primary grievance about the use of Electric Vehicles (EV) is the difficulty of finding charging stations, which causes many to continue using carbon-emitting vehicles. Due to most charging stations not actually being a “station” and more like 2 parking spots at a Walmart, locating EV charging stations can be very difficult, especially with older EVs that either don’t have built in charging station navigation or offers little to no information about the station. With my app, EnerGoGoGo, locating EV charging stations will be simplified and easy, promoting and increasing the use of EVs and cutting on-road emissions.



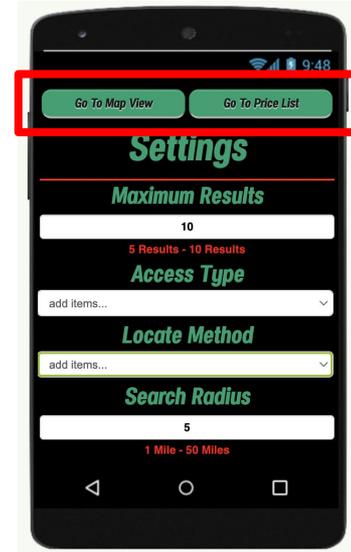
INSTRUCTIONS



Step 1: This is the Menu - It denotes the title of the app and displays a button to find EV charging stations.



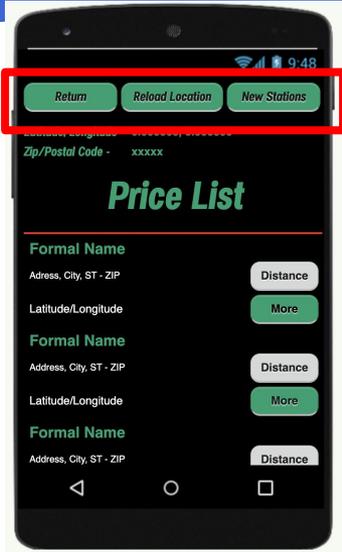
Step 1: Starting off with the Settings Page, you are given 4 options to change. First is the Maximum amount of station results returned (5 - 10 stations), whether you want all nearby stations to be returned or just the stations with access to the public, the method which it locates nearby stations (based on postal code or based on longitude/latitude), and finally the radius in which the program searches for stations.



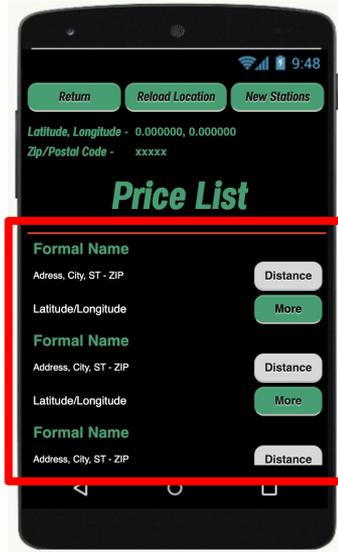
Step 1: Then you may advance to either view the nearest charging stations in a map or see a list of the closest charging stations with the top buttons.



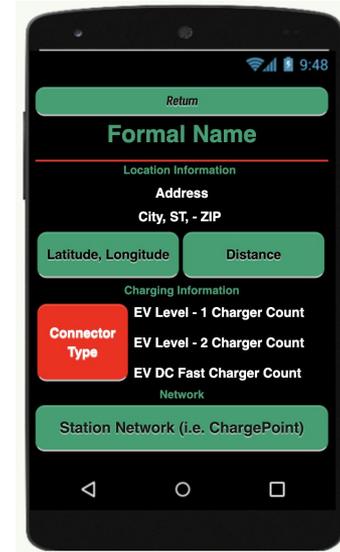
INSTRUCTIONS



Step 4: Clicking “Go To Price List” on the settings page will take you to a new page, which has a bar at the top where you can return to the settings page, a button to reload/load your location, and a button to load the information of the nearby charging stations.



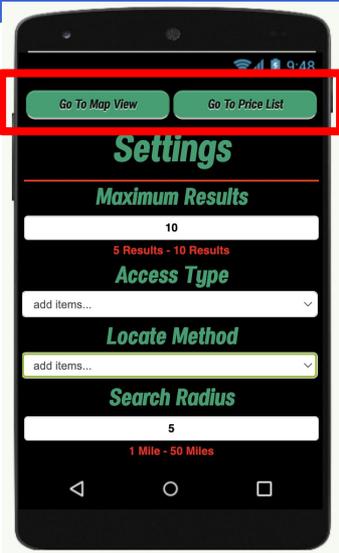
Step 5: By clicking “Reload Location”, you load your postal code and your latitude/longitude. Then, when you click on “New Stations”, the Price List below will fill with information on each nearby station, including the Formal name, address, latitude/longitude, distance from you (or center of your postal code if you picked that in the settings page), and a “More” button.



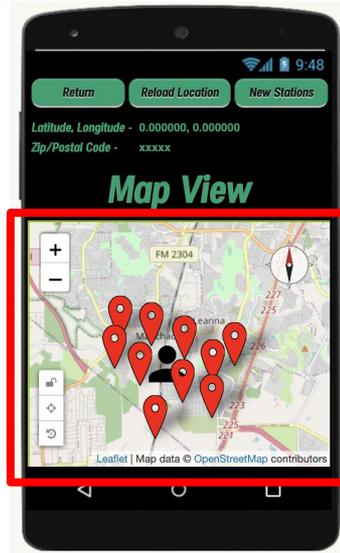
Step 6: Clicking on the “More” button will open a new page, with more information. Along with the original information shown in the Price List, it shows extra charging information and displays the network the charge station is in. By clicking Return you go to back to the Price List.



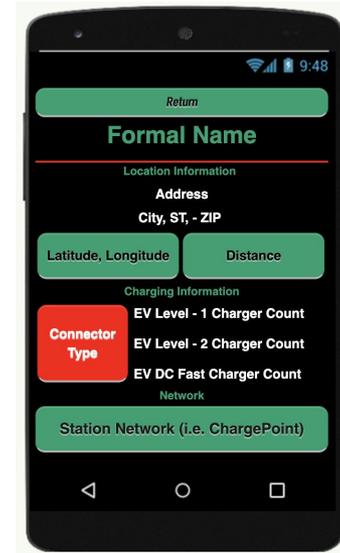
INSTRUCTIONS



Step 4: Now, click return on the information page and click return again on the price list. You will be back to the Settings Page. You may alter any options and/or press “Go To Map View” and see the nearest locations presented on a map.



Step 5: Here the same top bar and location display is present, however rather than a price list there is a map. Click on “Reload Location” to set your user marker to your current location and then “New Stations” to load the markers for nearby stations.



Step 6: Additionally, when you click on any of the charge station markers it will pull up the same information screen when clicking the “More” button in the Price List.



LIMITATIONS

In 100 words or less, describe the limitations of your app and what people should carefully consider when using it.

EnerGoGoGo, my app, although designed to be the best EV charging station locator, does have a few limitations. Firstly, it is unable to display the EV charging price, which many could have found helpful had it been a part of my app. Additionally, my app also occasionally separates stations near each other as separate stations. For example, if in a building there are 3 areas where drivers can charge their car, even if they are relatively close together, my app may register them as separate charging facilities, which can lower the amount of different charging station results returned.



ACKNOWLEDGEMENTS

Please list the names of anyone who helped you with developing your app, and describe what type of help they provided.

- Dad: Suggested that I make a gas station locator app, which I later converted into a charging station locator app as gas station locating apps were already very common and not unique.





APPENDIX

Sometimes the LocationSensor malfunctions and returns 0, 0 as the latitude and longitude. Please reload your location again until you get a valid coordinate before pressing “New Stations”.