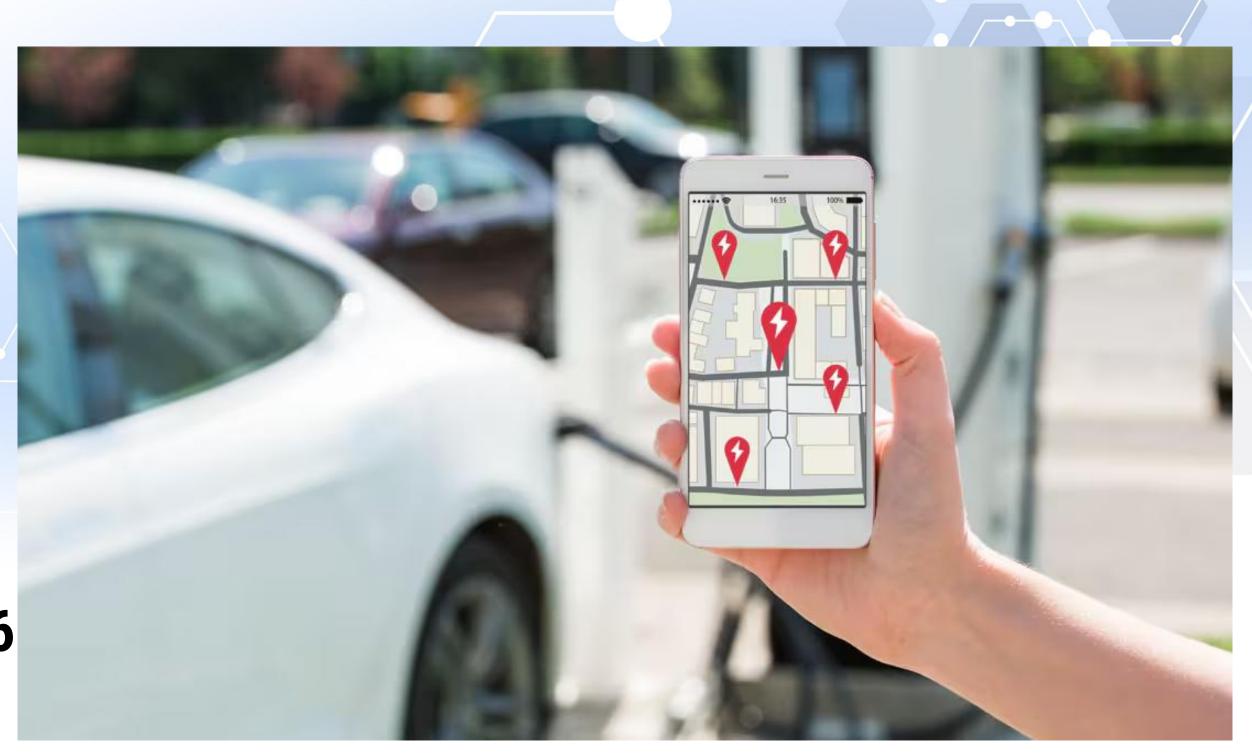
# ELECTRIC CHARGING STATIONS MAPPING

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ABOUT OUR PROJECT

Our project is designed to help electric vehicle drivers quickly and intuitively locate charging stations across the country.

Using an interactive map, users can filter stations based on location, plug type, and distance from their current position.

The system enables flexible searches and highlights the most relevant stations according to user needs. Our goal is to provide a practical tool for drivers who need to charge on the go, ensuring convenient access to charging stations.



## PROGRAMMING LANGUAGES & DEVELOPMENT ENVIRONMENTS



## PROGRAMMING LANGUAGES:

- **HTML** Defines the application structure.
- CSS Handles design and layout.
  - JavaScript Adds interactivity and logic.



#### **LIBRARIES & TOOLS:**

- Leaflet.js Manages the interactive map.
  - OpenStreetMap –
     Provides map data.
- Geolocation API –
   Retrieves user location.



## DEVELOPMENT ENVIRONMENTS:

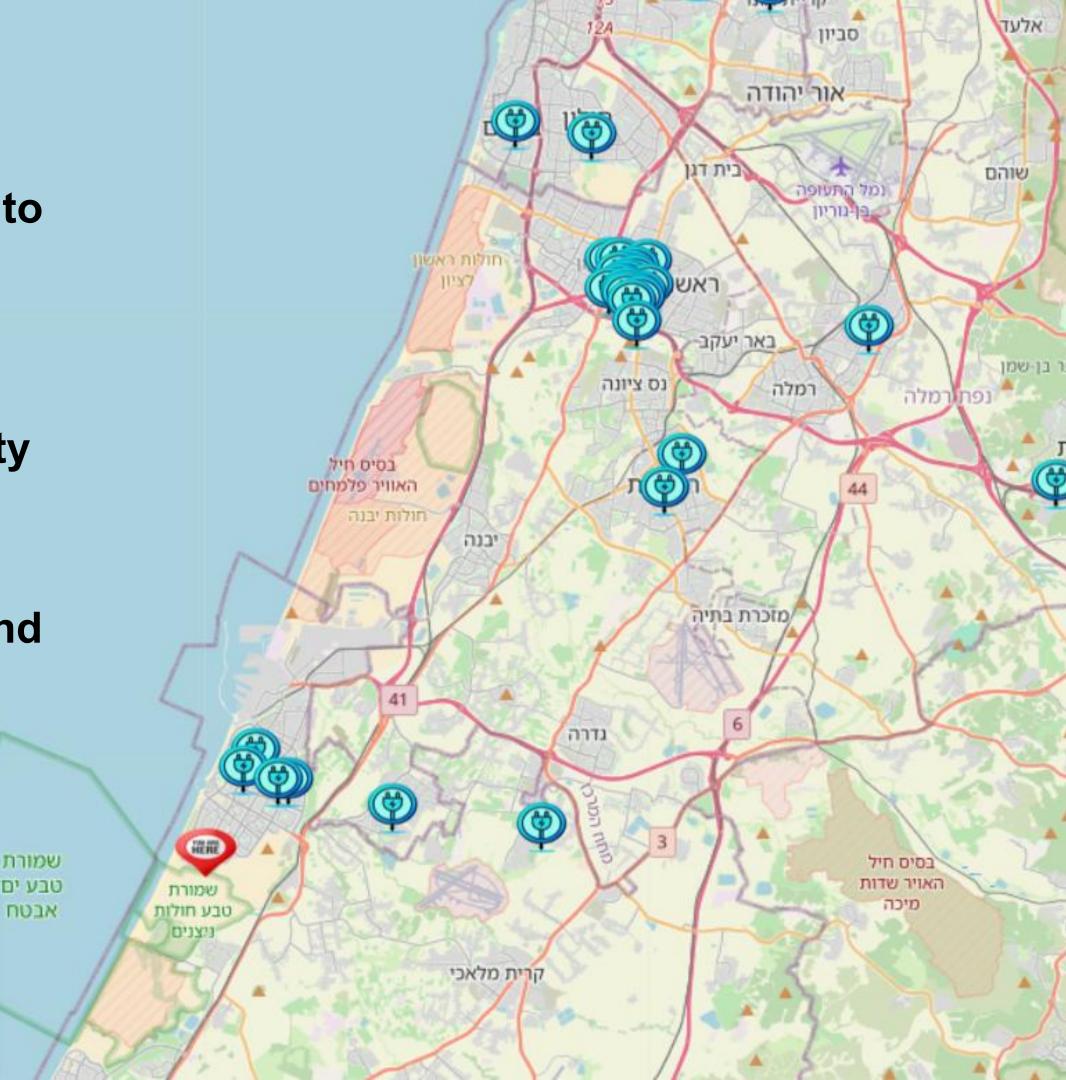
- Web Browser –
   Used for testing.
- GitHub For version control and collaboration.



### PROJECT OVERVIEW

The map in our application allows users to view their current location and find EV charging stations across the country. By clicking on the buttons in the search bar, users can filter stations based on city name, plug type, or distance from their location.

This interactive tool provides a simple and efficient way to locate nearby charging stations.



g Station Map

y city name

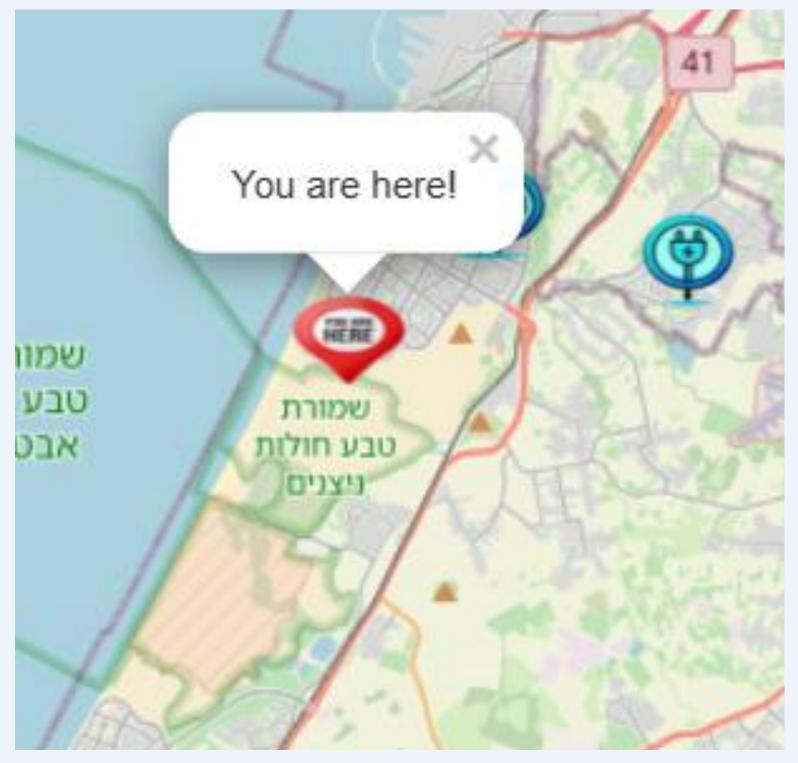
All Plug Types ∨

All Distances 🗸

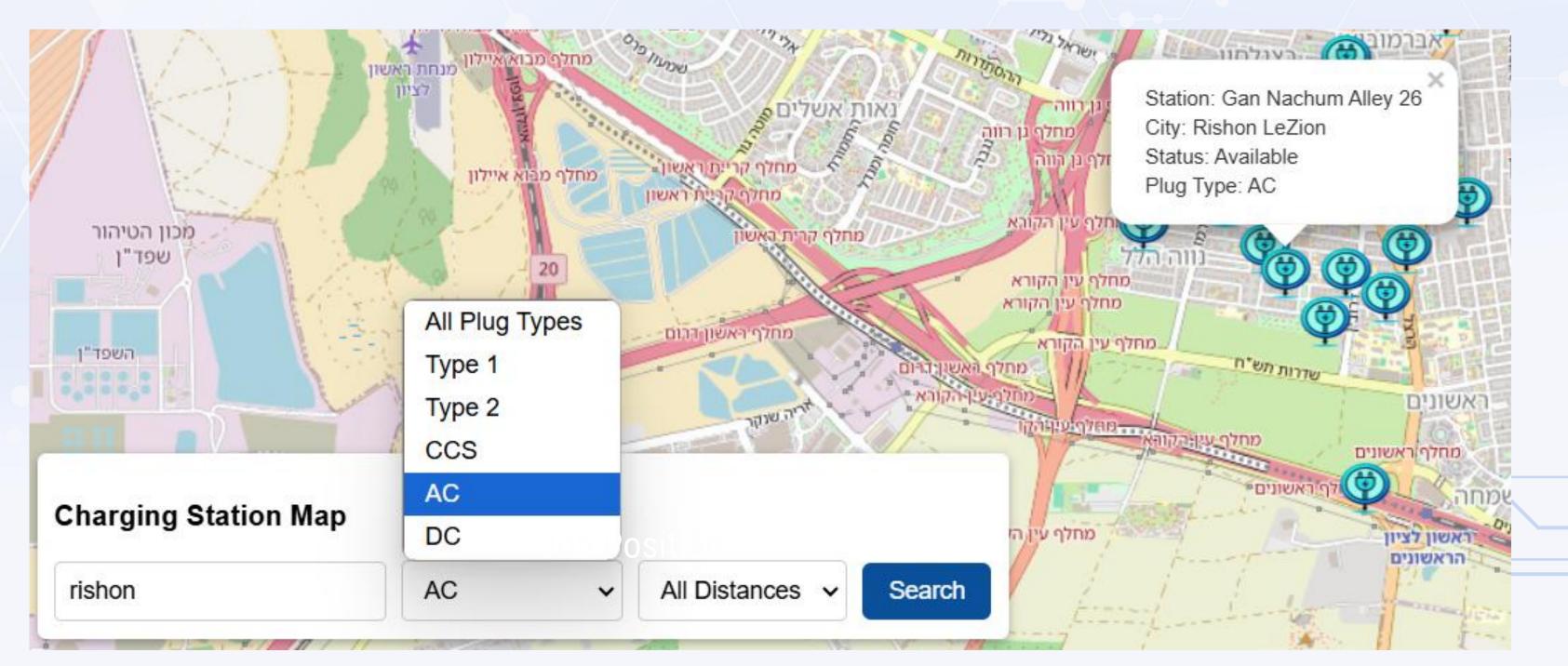
Search



The map now requests the user's location immediately upon accessing the application, ensuring an optimal user experience. By granting location access, users can instantly view their current position marked on the map with the "You are here!" icon. This feature helps users to easily identify charging stations in their vicinity.



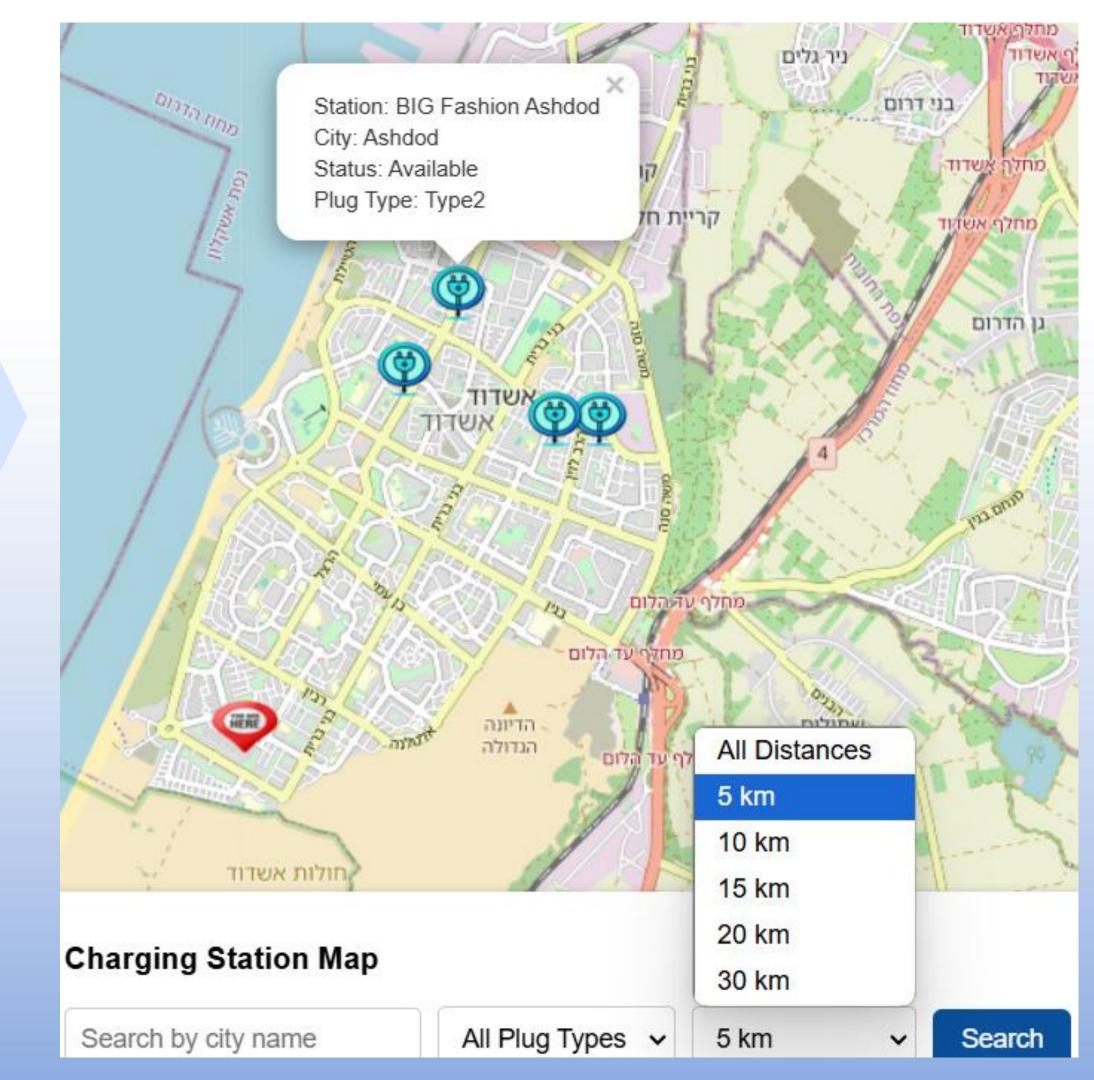
IN OUR MAP APPLICATION, USERS CAN SEARCH FOR ELECTRIC VEHICLE CHARGING STATIONS BASED ON SPECIFIC CITIES, CHARGING TYPES SUCH AS TYPE 1, TYPE 2, AC, DC, OR CCS, AND A RADIUS AROUND THEIR CURRENT LOCATION.





THE APPLICATION AUTOMATICALLY DETECTS

THE USER'S CURRENT LOCATION UPON
LOADING, THIS FEATURE DISPLAYS THE
USER'S POSITION ON THE MAP WITH A "YOU
ARE HERE!" MARKER. ADDITIONALLY, USERS
CAN FILTER NEARBY CHARGING STATIONS
BASED ON A SPECIFIC DISTANCE FROM THEIR
LOCATION, ALLOWING FOR EASY ACCESS TO
RELEVANT OPTIONS WITHIN A DEFINED
RANGE.



## PROJECT LINK: https://100adim.github.io/GIS-PROJECT1//

