

Project: EV Charging Station Finder App

Description:

The *EV Charging Station Finder App* is a user-friendly mobile application designed to simplify the search for electric vehicle (EV) charging stations. Built using **React Native**, this app leverages cutting-edge technology to deliver a seamless experience for EV owners by integrating live location tracking and providing station details within a 5000-meter radius.

Key Features:

1. Live Location Tracking:

- Automatically detects the user's current location and displays nearby EV charging stations on an interactive map.
- Ensures accurate results using the **Google Places API**.

2. Station Search and Navigation:

- Allows users to search for specific EV charging stations using **Google Auto Complete API** for faster and precise search queries.
- Provides step-by-step navigation to selected stations with integrated mapping functionality.

3. Station Management:

- Users can save favorite stations for quick access.
- View details of stations, including availability and location, to make informed decisions.

4. Profile Management:

- Enables users to manage their profiles, including updating preferences and saved locations.
- Secured with **Clerk** for smooth Google Authentication.

5. Firebase Firestore Integration:

- Stores user data, including saved stations and profile details, ensuring a highly scalable and real-time database experience.

Tech Stack:

- **Frontend:** React Native
- **Database:** Firebase Firestore
- **Authentication:** Clerk for Google Authentication
- **APIs:** Google Auto Complete API, Google Places API

This project combines modern technologies to address the growing need for accessible EV charging infrastructure, offering convenience and efficiency to EV owners. Its intuitive interface and robust backend make it an ideal tool for modern users navigating the electric vehicle ecosystem.

PROJECT IMAGES:

