Project Title	Electric Vehicle Recharge Bunk
Technologies	HTML, CSS, JS, and Firebase
Domain	Industry
Project Difficulties level	Medium

Problem Statement:

Electric vehicles (EVs) will be effortlessly incorporated into the transportation system, as transportation electrification is one of the fundamental components in future smart city design. Charging stations are the primary source of energy for electric vehicles, and their location is crucial for EV accessibility in cities. They should be strategically placed so that an electric vehicle may access a charging station within its driving range and then travel around the city once charged. We propose the Electric Vehicle Charging Slot Booking in this work, in which we try to reduce the EV charging station queue. The proposed EV Charging mobile app system will give EV car owners the convenience of discovering charging stations on a Google map, as well as charging slot availability. Receive charging status updates Assist in making EV charging stations more accessible and ensuring seamless long-distance travel.

Modules List-

EV Admin

- Login
- Register
- Create EV Bunk Location Details
- Manage Bunk Details
- Manage Recharge Slots

User

- Login
- Register
- Search Nearby EV Bunk
- View Bunk Details
    - Address
    - Mobile
    - Google map location
- View Slot vacancy

Project Evaluation metrics:

Code:

- You are supposed to write a code in a modular fashion
- Safe: It can be used without causing harm.
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works the same in every environment (operating system)
- You have to maintain your code on GitHub.
- You have to keep your GitHub repo public so that anyone can check your code.
- Proper readme file you have to maintain for any project development.
- You should include basic workflow and execution of the entire project in the readme file on GitHub
- Follow the coding standards.

Database:

- You are supposed to use FireBase.

Logging:

- Logging is a must for every action performed by your code, use the JavaScript or python logging library for this.

Deployment:

- You can host your model in the cloud platform, edge devices, or maybe local, but with a proper justification of your system design.

Optimization of solutions:

- Try to optimize your solution on code level, architecture level, and mention all of these things in your final submission.
- Mention your test cases for your project.

Submission requirements:

Project code:

You have to submit your code to the GitHub repo and you have to share the repo link at final submission of your project.

Detail project report:

You have to create a detailed project report and submit that document as per the given sample.