Project Title	Ebus Management Based Current Location System
Technologies	HTML, CSS, JS, and Firebase
Domain	Transport
Project Difficulties level	Easy

Problem Statement:

One component of intelligent transportation systems is advanced traveler information systems, with trip time information being a prominent component. Many transit agencies use the Prediction Model to watch their cars and forecast journey times in real time. It is critical to improve the precision and reliability of the prediction model in order to increase ridership, reduce passenger anxiety and wait times at bus stops, and improve passenger satisfaction. In addition, it has the potential to stimulate the growth of local public transportation. This study introduces a new method for predicting the arrival time of a public bus based on its location. The bus arrival time and linger time at prior stops are chosen as the key input variables after a thorough examination of the components of bus arrival time.

MODULES Description:

ADMIN:

- Create Login:

Admin enters this system and creates login for driver/travel.

Driver/Travels:

- Login:

  Drivers/Travels are login to this system.

- Post Bus Information:

  Drivers/Travels enter this system and post their Bus's complete Information.

- Post Bust Type:

Drivers/Travels enter this system and post their Bus's complete details about the type of bus.

- Post Contact:

  Drivers/Travels enter this system and post their Contact details.

USER:

- Register and Login:

Here users after registering and login they can enter this system.

- View Details:

  Users can only view this system.

Login

This module is used for the customers to login with valid credentials.

Register

This module is for the customers who do not have their account. The account creation is done by filling the registration form with user details such as first name, last name, email and password.

Search Bus Location

This module is used to search the location of bus by entering their source and destination location which enable the user to reach bus stop at correct time instead waiting for long time

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.