Vehicle Management System Documentation

Overview

The Vehicle Management System is a web application designed to manage and track information about vehicles and their categories. Built using the MERN (MongoDB, Express.js, React.js, Node.js) stack, this system provides a comprehensive solution for organizations or individuals to keep track of their registered vehicles.

Features

1. User Authentication

Secure user authentication system with JWT(JSON web token) allowing registered users to log in and access personalized features. Apart from this, users can sign up for the system, as soon as they sign up, they will receive an email from the system to complete the sign up process.

2. Vehicle Information

- Add, edit, and delete vehicles with details such as make, model, registration number, added category, and more.
- View a list of all registered vehicles on the dashboard.

3. Category Information

- Add, edit, and delete category.
- View a list of all added categories in the system.

4. User Roles

- The user will be an admin of the system.

5. Tech Stack

- **Frontend:** React.js
- **Backend:** Node.js with Express.js
- **Styling:** Tailwind CSS / Ripple UI
- **Database:** MongoDB
- **Authentication**: JSON Web Tokens (JWT)

Installation

1. Clone the repository: `gh repo clone alikhantareen/ropstam_task`
2. Install dependencies:
   - Backend: `cd backend && npm install`
   - Frontend: `cd vehicle-management-sys && npm install`
3. Configure environmental variables in the backend by creating an .env file and add :

```
PORT=5050
JWT_SECRET=task
```

 (`backend/.env`).
4. Run the application:
   - Backend: `cd backend && npm start`
   - Frontend: `cd vehicle-management-sys && npm start`

Usage

1. Visit the application in your browser.
2. Register for a new account or log in with existing credentials.
3. Explore and use the different features of the Vehicle Management System.

Developer

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