Tech Challenge

Senior Backend Engineer

Introduction

This challenge is part of the hiring process for the *'Senior Backend Engineer'* role at deskbird.

Kindly complete the assignment and submit it within **5 days.** You can send it via email or through a hosting service of your preference.

Happy coding! 🙂

Assignment

We need to develop a Node.js service that enables users, based on their permission level (admin or standard), to perform CRUD operations for parking spot bookings.
- **Admin users** can create bookings and can *get/edit/delete* any existing booking.
- **Standard users** can create new bookings and can *get/edit/delete* only the bookings they have created themselves.

We require REST API endpoints to manage all the operations mentioned above.
There is no need to create a user registration process; users can be manually added to the database. Additionally, for simplicity, user authentication will be done solely through an API token (no login, sessions, etc.).

You are not limited in terms of the frameworks and libraries you can use for this project. At deskbird, we currently use Express.js and Postgres. While you have the freedom to choose something different, please be prepared to explain your choice if questioned.

Entities

The entities can be kept simple, for example:

User
- ID
- First name
- Last name
- Email
- Role
- Token

Booking
- ID
- Created by user
- Start date time
- End date time or duration
- Parking spot
- Created at
- Updated at

Parking Spot
- ID
- Name