

VaCarTion

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Overview

A car rental system which enables customers to rent cars they need and manage their reservations with the option of paying later. The car agencies are allowed to register on the system and add their cars to the system. The system admin can manage the whole system. The system is built using Node.js and Express.js. The database is built using MySQL.

Dependencies

- [Node.js](#)
- [Express.js](#)
- [MySQL](#)

- [EJS](#)
- [Bcrypt](#)
- [Dotenv](#)
- [Nodemailer](#)
- [Jsonwebtoken](#)
- [Cookie-parser](#)
- To install all the dependencies, run the following command in the terminal:

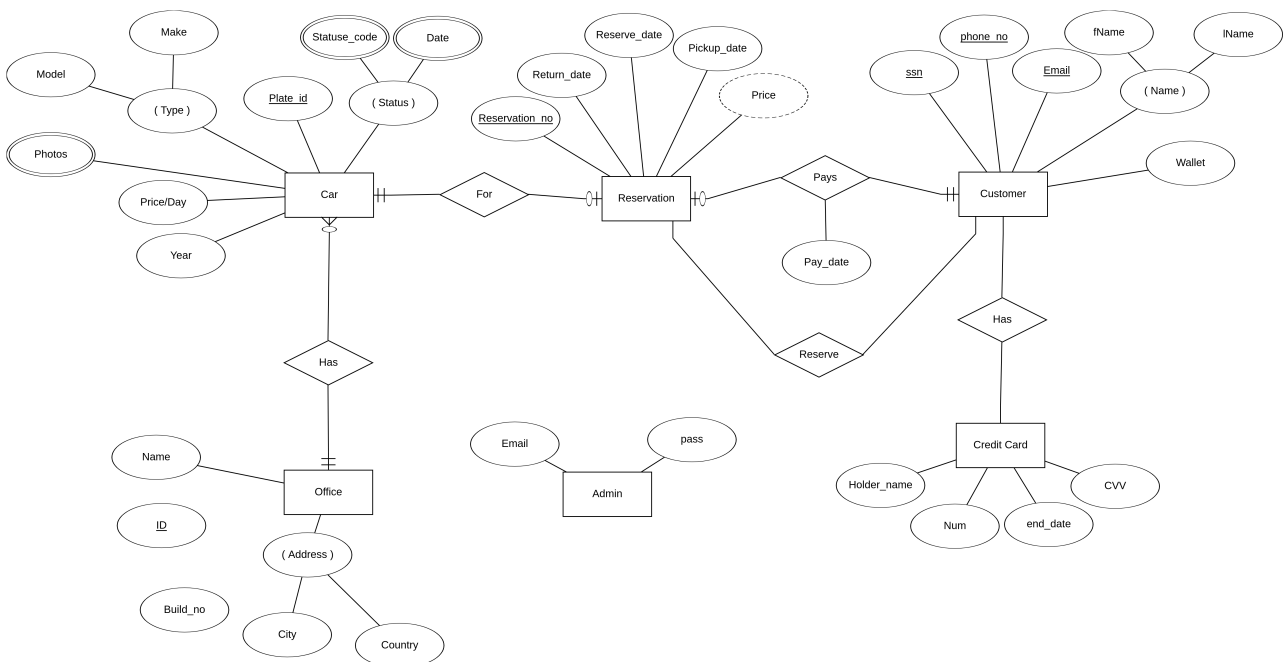
```
npm install
```

Database Schema

DDL

- You can find the create your database schema by running the Data Definition script in [Database Schema](#)

ER Diagram



Authentication and Authorization

- The system uses [JSON Web Tokens](#) for authentication and authorization.
- The system uses [cookie-parser](#) to store the access token in the cookies.

Deployment

1 - Create a database with the explained [database schema](#) and [ER diagram](#)

2 - Configure the .env file and set the following variables:

```
- DB_HOST
- DB_USER
- DB_PORT
- DB_PASS
- DB_NAME
- ACCESS_TOKEN_SECRET -> Secret key for generating access tokens
- EMAIL -> Email address from which you want to send the emails
- PASSWORD -> Password of the email address
```

3 - Make sure you have installed all the [dependencies](#) by running the following command in the terminal:

```
npm install
```

4 - Run the following command in the terminal to start the server:

```
npm start
```

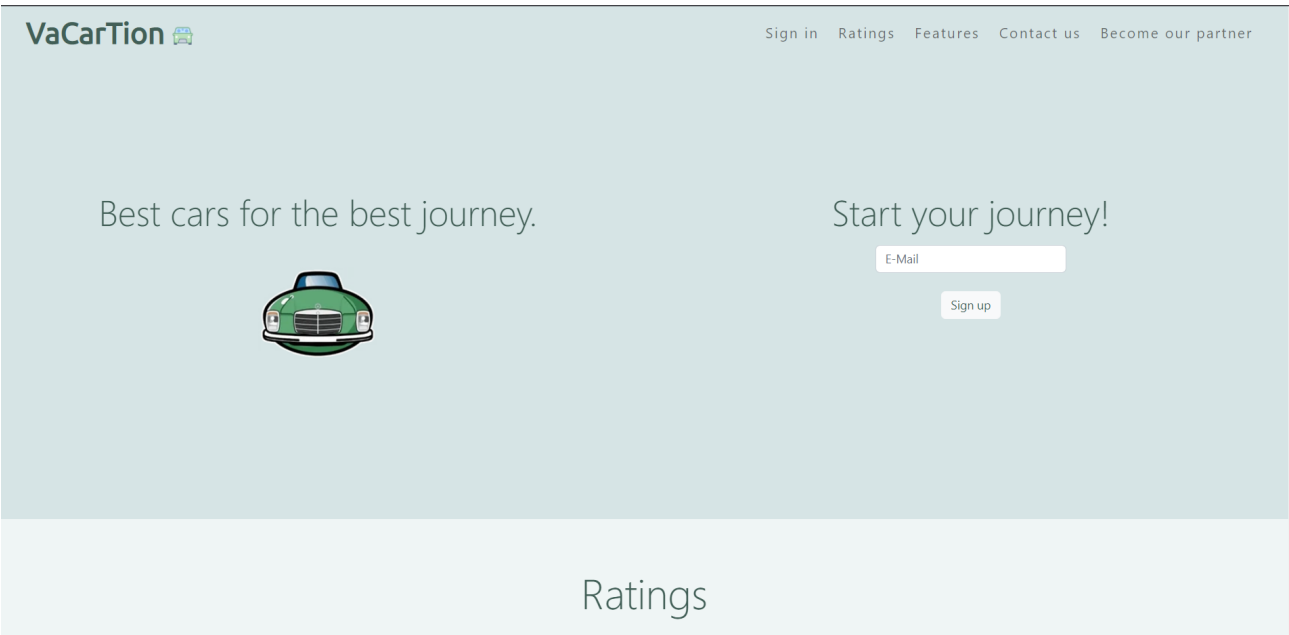
5 - Open the browser and go to the following link:

```
http://localhost:3000
```

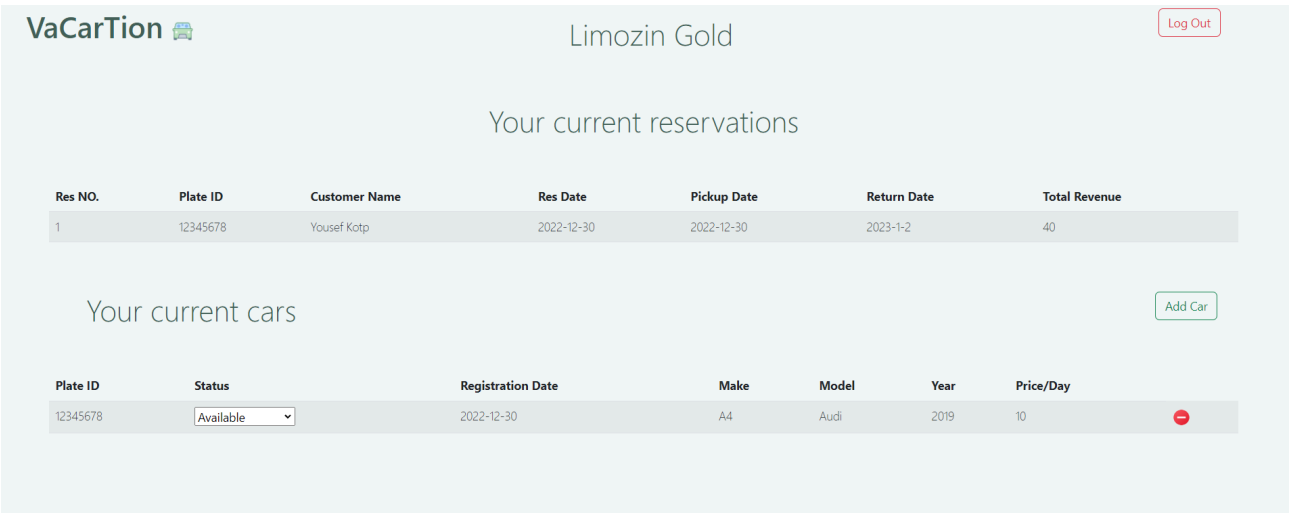
- Note: If you want to run the server on a different port, you can change the port number in index.js file

Screenshots


Landing Page



Office Agent Dashboard



Customer Dashboard

VaCarTion

Welcome, Yousef Kotp

Log Out

Your current Reservations

New Reservation

Reservation ID	Car ID	Pickup Date	Return Date	Model	Make	Year	Total Cost	Payment Date
1	12345678	2022-12-30	2023-1-2	Audi	A4	2019	40	Pay
2	56789012	2023-1-1	2023-1-5	BMW	X6	2015	12.5	2022-12-30

Reservation Page

Reserve a Car

Any

Any

Any


Pickup Date

12/30/2022


Return Date:

01/02/2023


Show Available Cars




A4 - Audi, 2019
10 \$/Day
Limozin Gold - 1, Cairo, Egypt




X5 - BMW, 2018
15 \$/Day
El AML - 2, Alexandria, Egypt



C200 - Mercedes, 2017
5 \$/Day
Safe Ride Office - 3, Giza, Egypt



A6 - Audi, 2016
7.5 \$/Day
Lambo office - 4, Cairo, Egypt



X6 - BMW, 2015
2.5 \$/Day
Trust Limo - 5, Giza, Egypt

Pay Now

Reserve

Contributors

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4 . Hossam Elshamy