LEXICON

ASSIGNMENT

Parking app

1. Purpose

Control an app's inner working through an API.

2. Assignment

This is a mandatory assignment you will continue with during the Christmas weeks. Share a link to your code on GitHub with me on Thursday in the first week of 2025.

We will return to this app during the course and improve upon it. Consider making it a single standalone repository on GitHub so that it becomes easy to include as a demonstation project in your profile material (like CV.)

Use Swagger to test the endpoints of your app. Swagger can work as a form of prototype frontend solution. You can add HTML pages for POST methods, but that's optional. Eventually, we will use JavaScript to power the frontend. Then we will be able to send application/json as content-type to our backend. So, your POST methods should be prepared for this, accepting application/json.

Imagine the app being accessed through a mobile, with a simple user interface as a consequence. Your backend provides a number of API endpoint that makes possible a future frontend solution. You have to imagine the frontend through your endpoints.

The practical circumstances for our client – one parking area with an hourly charge 14 SEK between 8 and 18 and 6 SEK the rest of the day. Users have an account that collects the cost. At some point the user is charged for their costs, but that is outside of the app at this stage.

Endpoints:

- begin a new period (GET or POST)
- end the present period (GET or POST)
- get the present period for a car (GET)
- register a user/car (POST)
- get cost on registered account (GET)
- get user's all registered details (GET)

The backend needs to keep track of time in order to calculate costs.