Corporate Carpooling as a Service

Web and Cloud Computing
Group 6

Stefan Evanghelides (s2895323)

Alexandros Charisis (s3992853)

Etherlbert Uzodinma (s3886026)

Idea

Optimize the work travel routes between employees

Optimization should take into account least travel time for (a group of) employees and also minimum number of cars
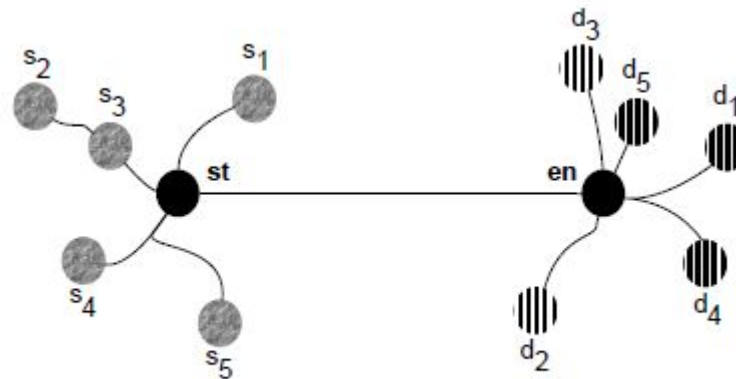

Figure 1: The OES Query. [1]

[1] https://arxiv.org/pdf/1706.07829.pdf

Idea

There are 2 categories: Employees and Drivers (which are also Employees)

Employees can see which cars are near them (there can be more)

Employees have the option to select the car (either because it's nearest, or because the car is simply "nicer")

There is going to be a limited number of people in the car (according to the Driver's car's specs)
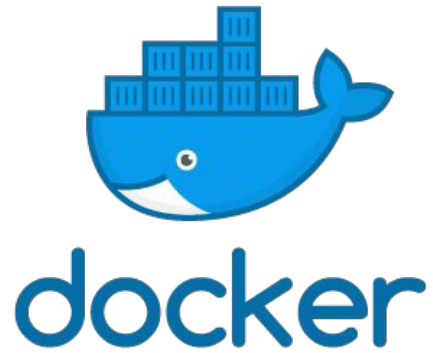
Technical Details Overview

First, Employees are registered with their details (hence, there will be a Login page)

Drivers are registered along with their car details

On the backend, the server will try to pick up "optimum pick-up locations for the employees" and show the pick-up points.

There will be the main page for the Employee to see the pick-up points and to select the car.

Technology Stack

Technology Stack - Optional

Architecture