Senior Fullstack Engineer Test City Logistics

The goal of the test is to build a simple web application to perform routing from point A to B. The system must use Here Maps API (see documentation at https://developer.here.com/) to allow the user to search for specific address within South Africa (plese read API documentation to implement contry filtering) while selecting A and B, biasing results for B based on the selection of A.

Once A and B are selected the application must determine routing information between the two points and display them in the frontend, along with the polyline.

The web interface must consist of three components, shown on a single page:

● a component showing the two address search inputs, with B enabled only after A is selected, and two buttons, one to perform the routing call, the other one to clear the form (and the other components)

● a component that renders the route information (time and distance)

● a component that renders the polyline (you can use Leaflet https://leafletjs.com/ or any other rendering provider) and the two markers for A and B;

The web application must store on a perstince layer (relational database of your choice) the routing requests made by the user. There is no need to render such information, but we will evaluate how they are persisted into the database. You have total flexibility in designing the database schema.

From a UX perspective you have total freedom, as long as the three components are there.

Expected output

Create the projects as a Git repositories using Github and include a file README that illustrates how the code is structured. We expect:

● one repo for the backend, in .NET Core or Java EE, containing also the schema SQL
● one repo for the frontend in Angular, or any other JS frontend framework (worst case scenario even jQuery+Bootstrap)

We won't run the source code, so no need to make it deployable outside your machine, should we progress with your application the last phase will be a techincal discussion in front of your laptop about your code with our CTO and possibly a few question around the implementation of a potential additional feature.

Our aim is to see how you read highlevel requirements and analyze technical documentation to implement a solution.