

# Connex Tech Test

## Summary

The goal of the tech test is to evaluate your base technical skills that would be used as a team member at Connex. The task is to build a new feature both in the frontend and backend, pulling data from the database and displaying it in the UI for the end user. You will also need to debug a minor issue.

The test project reflects some of the technologies we use at Connex, but we are happy for you to add in additional packages etc as you see fit.

One of the key parts of development is the ability to work as part of a team. If you have any questions about the requirements or implementation please feel free to reach out.

We expect the project to be completed in 1-2 hours, but not exceeding 2 hours.

## The Project

The project is a simple dashboard that is running on a react frontend and node/express backend. There is also a sqlite database with preloaded data.

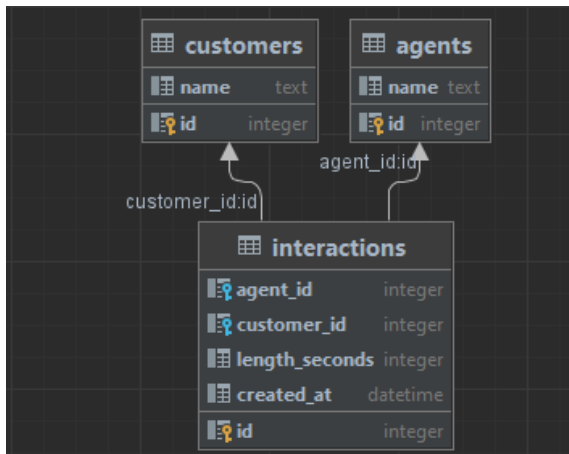
In the UI there are six widgets in the top bar which display the current weather in some of our office locations. A list of contacts on the left hand side, and an empty middle section for a datatable. The webapp is served by default on port 4200

The backend is using a library called express-openapi which handles the routing and helps with api docs generation. Paths are generated on a dir/filename basis, the root of this can be found at [apps/api/src/paths](#). The API is served by default on port 3333.

There is a README and Makefile that should assist getting the application running, for development purposes we recommend running the API and webapp separately as you can get better logging.

We make use of the Orval library which generates type safe hooks for the frontend to access the backend, based upon the openapi spec on each endpoint, you can find out how to generate new hooks in the Makefile.

Our hot reloader has some issues when creating new files in the API, you may need to do a hard reload when adding new routes in the API.



## Requirements

### Agents Daily Report

Create a report in the form of a datatable which displays a summary of each agent by day with the following columns:

Date	Interaction created_at date
Agent	Agent name
Total Interactions	Number of interactions made by that user on that day
Average Interaction Length	Average Length of interactions made by that user on that day

If you would like to add any additional functionality such as filters, ordering, etc , and time permits, feel free to add them as you see fit.

### Weather Widgets

The weather widgets are currently bugged and not showing the current weather, please find the bug and fix it, Please note that as always the first solution is often not the only solution when fixing a bug.

### General Improvements

If time permits, please add any improvements you see fit. For example this could be:

- Refactoring/improving code

- Unit/Feature tests
- Env variables
- UI look and feel
- Dockerisation
- Anything else you see fit