

Congratulations! You have made into our next round of hiring process. At this step, you are expected to write code for a mini-project, commit your code to your personal GitHub account, and send the GitHub link back to us for review.

There are both frontend and backend in this project. You only need to choose one (either front-end or back-end) to solve.

If you have any questions, please feel free to contact us (antonio.villagra@grab.com)!

Project goal

Build a responsive web application to (1) list nearest restaurants given a location, and (2) view detailed information of a restaurant and make a reservation.

Frontend

The tasks:

- Build a responsive UI to display the top 1 restaurant prominently and the rest of the top 10 as a list. You can design your own wireframe and style.
- Clicking on a restaurant from the list should open a detailed page for that given restaurant with a button to allow reservations. When a user clicks on that button, call your designed endpoint to make reservation.
- Design REST API endpoints, and document your API design in your commit. Your design should include HTTP request method, request and response.

Requirements:

- You must use React in your project. You can check out <https://reactjs.org/> to pick up React if you are not familiar with React.

Backend

The tasks:

- Write a REST API server using Golang.
- Design and implement a REST API endpoint to return all restaurants within a 5 kilometer radius of a given location. In your implementation, do consider the relational data model to store information on top restaurants in an area (name, type of cuisine, location, rating, etc...), and how to query the data efficiently.
- Design and implement a REST API to make restaurant reservations coming from the client. In your implementation, consider the relational data model to store reservations.

Requirements:

- You must use Golang in your project. You can check out <https://golang.org/> to pick up Golang if you are not familiar with Golang.