

Taco Loco Front-end/Backend Code Challenge

Taco Loco, a quick service fleet of taco trucks, is building a new web application to enable its delivery drivers to manage customer addresses for delivering their delicious tacos. They've hired Detroit Labs to build this web application.

Backend challenge

As a backend developer, you've been tasked with creating a backend service to create, read, update and delete delivery details (customer name and addresses) for truck drivers. The service will take as input the name and address of customers. The backend service should enable delivery truck drivers to:

- Add new delivery with customer's name and address
- Look up all deliveries database
- Update a delivery (customer's name and/or address)
- Delete a delivery

Taco Loco wants you to define the data format for the request and response and prefers using JSON.

If you normally use a project template when creating new applications, feel free to use it for this exercise. Security is not required.

Front-end challenge

As a front-end developer, you've been tasked with creating a web application to enable delivery drivers to:

- Add new delivery with customer's name and address
- Look up all deliveries database
- Update a delivery (customer's name and/or address)
- Delete a delivery

Taco Loco wants you to come up with a functional User Interface for this application. You don't have to worry about the "design" (how it looks) - Taco Loco cares more about the functionality.

If you're only doing the front-end part of this challenge, build the front-end as if the API is still in progress, so it needs to return mock data for now. We encourage you to build in such a way that when there's a new functional API, it would be easy to swap out.

FAQ

How long should I/may I spend on this exercise?

You may spend the amount of time necessary to submit a solution that is a true representation of your abilities. Please add in an estimation of how much time you spent when you submit your solution back to your contact.

Which languages/frameworks may I use?

Our current technology stack at Detroit Labs includes the languages and frameworks listed below. These languages and frameworks are preferred for completing this exercise.

Languages:

- JavaScript / TypeScript
- Java
- Kotlin
- C#

Frameworks:

- React
- Angular 2+
- Node.js

How will my submission be evaluated?

At Detroit Labs, we care about:

- Steps to start up the application. Provide a step by step guide on how to start the application so it is easy to review.
- Code quality, style, and readability. Code should be of excellent quality and should follow standard style guides for the language/platform of choice. We value clarity, simplicity, and maintainability. You should be proud of the code you send us for this exercise.
- Architecture and design. The implementation mechanics, libraries, databases, and architecture(s) used should be suitable for this exercise. Avoid using unnecessary tools that add more complexity than value.
- Error and edge case handling. Identify and handle any errors and edge cases as you would for a production application.
- Appropriate documentation. The application should contain the level of documentation and commentary you would use in a production application. Your commit history should be clean, with each commit representing a solid piece of work in your application.
- Completeness and correctness of features. The features implemented should be complete, and accurate/correct in line with the asks of the exercise.
- Platform familiarity. Your solution should use components and patterns in line with the platform and/or framework guidelines.
- UX & Design. We're assessing your development skills, not your design skills, so don't spend time making fancy graphics. We only ask that the user interface be clean and clear and follow relevant platform guidelines.
- Tests. Tests are not required for this code challenge.

Submitting your completed solution:

- Share your Github link and an estimation of the time you spent on your solution to your contact at Detroit Labs when you have completed the assignment.
- Once we have reviewed your submission we will be in contact regarding the outcome and next steps. Thank you, and Good Luck! We can't wait to see what you come up with!