

\aunchcode

what's your mission?

Developer Challenge

Hi there,

Thank you so much for all the time and effort you have invested in this process, we really appreciate it! This challenge is designed to showcase your development skills and should ideally take about two hours, but feel free to take as long as you like.

The goal of this challenge is to build a small full-stack prototype based on the imaginary scenario described below. When looking through the results of your challenge we're confident we will see...

How you think through a challenge and explore solving a business problem

Technical proficiency in each layer of the application

Best practices when modelling the problem in a database

An easy to use interface with a focus on the client experience

THE CHALLENGE

WET BAT World Adventure

Client

Wet Bat is a national travel agency chain that provides tour services to 50 countries around the world for thousands of families every year.

Client Goal

Wet Bat wants to be globally recognized as a high quality service provider. To be able to invest more on the quality of service without reducing their profit margin, Wet Bat wants to reduce their operational cost in half by creating a lean and efficient operation.

Description of the situation

Wet Bat creates around 200 quotes a day and provides in average 75 tours per month. Currently they have a portfolio of 10,000 clients and revenue of \$5,000,000 yearly. One of the main FY2020 strategic actions is to implement an easy to use back-office solution that allows their staff to:

Create and
manage quotes

Convert quotes
into "services"

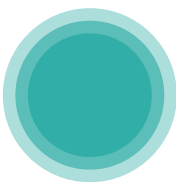
Manage the
programs (tours)

Manage
invoices

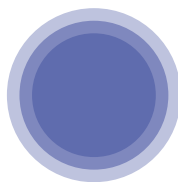
View key
business info

Design Inspiration

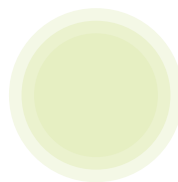
For the first sprint of this project, the design team created the initial version of Wet Bat's visual identity alongside with a mockup for the dashboard of the app. Those can be used as inspiration for this prototype.



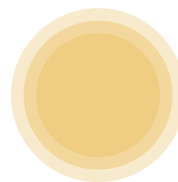
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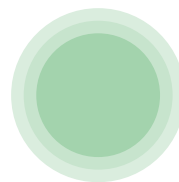
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High Fidelity Dashboard UI Design



Challenge Instructions:

Launchcode is excited to create the first working prototype for Wet Bat. You've been asked to make a proof of concept to demonstrate a tangible product. This will involve building the minimal quoting functionality as shown in the included design document. As part of the minimal viable product (MVP), this prototype will require a database and frontend application. Additional layers or services can be added as necessary.

At a minimum, we would like to be able to view a list of quotes and view a detail screen for each quote. A quote should include at least the following information:

- Departure & destination location (ideally airports)
- Departure & return date
- Number of travellers
- Transportation during travels (rental car, etc)
- Contact information

Technical Requirements

Database

- Relational database (SQL)
- Include a method to create the database schema, ideally using migrations

Frontend

- React frontend
- Use a UI component framework that you're familiar with
- UI does not need to match the design document precisely
- We expect a minimal page layout, but don't worry about making it perfect or fully functional
- Any method of data fetching can be used (eg. REST, GraphQL, JSON API, etc)

Version control

- Code to be committed on GitHub (private repos allowed)
- All application layers included in a single repository

Tips

This is a prototype, so don't worry about:

- Authentication
- Infrastructure (deployment and configuration)

Supporting documentation is an asset:

- How to build the application
- Structural decisions that were made

Bonus points if you can deploy the application somewhere publicly accessible upon submission (this should be temporary)

And remember **quality** is more important than quantity, please feel free to put more effort into specific areas that you would like to showcase (eg. frontend or backend).

Have fun!

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