

DML Fullstack Coding Challenge

The purpose of the coding challenge is to provide you with an opportunity to demonstrate your coding skills. The focus is two fold, build a simple React app to demonstrate frontend skills including React and CSS/SASS, and deliver simple APIs using Node/Express.

We know that you are busy so we don't want to take up a big chunk of your time. We aim for the challenge to take 2-4 hours.

We provide a skeleton project to get you started. This contains a simple Single Page App (SPA) structure (using Create React App) and a simple backend that uses Express. Check out the readme in the root of the project for more details.

For the frontend, we ask that you avoid using a UI framework so we can see your skills in creating UIs, styling and interactions.

For the backend, we've provided you with some code to help get you started. The provided Express app contains some simple routes and placeholders for your APIs. You will need to complete the functions to make this work. There is some commented out code in there to provide hints, replace this with real code.

Additionally, we have also provided a simple in-memory database to persist the data. You are free to use something else if you prefer.

Coding Challenge

For this coding challenge, we would like you to create a simple survey app. We provide some instructions and a couple of wireframes to guide you. The wireframes are just there to help illustrate the concept, feel free to take them any direction that you wish. We are intentionally a little vague, so please fill in any gaps with what you think makes sense and we will discuss any decisions as part of the review.

Simple Survey Admin

Create a simple admin to invite users to your survey. There's no login required to complete the survey. Instead each user can be provided with a unique link so that you can track their response.

The wireframe below provides two main functions.

1. Add a new user by providing name and email. Clicking the "Get Link" button should save that user and return a unique url for them to complete the survey.

2. List out the users that have previously been created with their responses. For users that haven't completed their response yet you could provide the link or a button to get the link.

First Name	Last Name	Email Address	
John Doe	Not Completed	Copy Link	
John Doe	Completed	Response	
John Doe	Not Completed	Copy Link	
John Doe	Completed	Response	
John Doe	Not Completed	Copy Link	
John Doe	Completed	Response	

Simple Survey Submission

Users should be able to complete the survey and submit their response. The response should be saved and displayed in the admin.

The wireframe below shows the screen for completing a survey. This can be accessed using the link generated in the previous screen. The question/options can be included statically in your app or if you wish, can be pulled in via an API that you create.

A Simple Survey

☐ Option A

☐ Option B

☐ Option C

Submitting Your Challenge

To submit your completed challenge either upload to Github and provide us a link or zip up the project and email it back to us. Tests are optional but always appreciated. We use Jest but run with what you know.