

## Backend development test

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# 1. Introduction

Thanks for applying to work at Propeller!

To assess your skills, we'd like you to perform a technical test.

A big part of development at Propeller is integrating with third party APIs, so our technical test is to create a simple integration with a mocked up CRM API.

It should take approximately 2 hours to complete. Please do not spend more than 4 hours on this task. If you feel that there are more improvements you could make, or there's functionality you don't have time to complete, please document these as part of your submission.

Our aim is to evaluate your approach to problem solving and integrating with an API rather than ensuring that you know the right piece of trivia or ensuring the code is 100% perfect.

Please ensure that everything you submit is your own work – don't use AI to generate large parts of your code.



## 2. The task

We want you to create an API client and example code using it to submit a sign up and enquiry to our API.

Your code should demonstrate:

1. Creating a subscriber, including fields for:
  - a. Email address (mandatory)
  - b. First name (optional)
  - c. Last name (optional)
  - d. Date of birth (mandatory, please ensure every subscriber is at least 18 years old)
  - e. Marketing consent (optional, it should be possible for people to send an enquiry without giving marketing consent)
2. Adding the subscriber to one or more of the pre-created lists (specifically the London, Birmingham, and Edinburgh lists) based on their selection. Please only add them to the marketing lists if they gave marketing consent.
3. Creating an enquiry linked to the subscriber, sending a user provided message to the API.

You can use any PHP framework (at Propeller we prefer Symfony), but you should provide a REST API that would be suitable for use directly by a web browser using JavaScript.

Please provide your solution as a Git repository, ideally on a service like GitHub, GitLab, etc.

To get started, you should have been provided with the following:

1. An OpenAPI specification showing the demo CRM API
2. Documentation for the API
3. The URL of an instance of the API for you to use
4. An access token for the API

Your instance of the API has had some subscriber lists created as well:

1. A default list
2. London
3. Birmingham
4. Edinburgh

