Technical Test

PACE IT SYSTEMS LTD

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Introduction

This technical test is designed to give us an understanding of your capabilities. We aren't looking for you to complete the task, but rather that you have solid understanding of the technologies you will be using in the job you are applying for at Pace.

Summary

We would like you to build an address book web application, with all data stored in a JSON flat file. You need to be able to list, view, add, edit and delete records. As part of the application you should implement the following:

- **Object-orientated code**
  All code should be fully object-orientated and namespaced. Bonus marks for demonstration of dependency injection and/or unit tests.

- **Programming Language**
  We don't prescribe which language you should use, we want you to use what your most familiar with so you can show off your skills.

Build

You should build the app in three stages, using Git for source control. Commit after each step so we can see how the system progressed:

1. **Step 1 – Initial Build**
   Build the initial app using your favoured programming language and a basic responsive design. Make sure the user can list, amend and search all records.

2. **Step 2 – Integrate API**
   Add endpoints to your application for all common functions. These should accept and return JSON. You should write unit tests to test your code, ideally in a TDD manner.

Example JSON

```json
[
	{
		"first_name": "David",
		"last_name": "Platt",
		"phone": "01913478234",
		"email": "david.platt@corrie.co.uk"
	},
	{
		"first_name": "Jason",
		"last_name": "Grimshaw",
		"phone": "01913478123",
		"email": "jason.grimshaw@corrie.co.uk"
	},
	{
		"first_name": "Ken",
		"last_name": "Barlow",
		"phone": "019134784929",
		"email": "ken.barlow@corrie.co.uk"
	},
	{
		"first_name": "Rita",
		"last_name": "Sullivan",
		"phone": "01913478555",
		"email": "rita.sullivan@corrie.co.uk"
	},
	{
		"first_name": "Steve",
		"last_name": "McDonald",
		"phone": "01913478555",
		"email": "steve.mcdonald@corrie.co.uk"
	}

]
```