A short test project for Web Developer

For this test, we want you to build a simple API that filters a list of objects. This test is not designed to trick you or be too challenging, but it should give you the opportunity to show us how you work.

There are 3 parts parts to the test:

- Creating a repo on GitHub to hold your work
- Creating the API and ensuring it works to spec
- Deployment to a public service

You can take as long as you need to submit your solution, but this shouldnt take up any more than 2-4 hours of your time. We expect production quality code (within the given scope).

Greating a Git repo

1. Make a new git repo and check it into GitHub
2. Make the repo public.
3. Include a README.md in the project's root with instructions for what we need to run your code and execute tests

From now on, please commit frequently and write meaningful commit messages.

The Challenge

Using Node.js and your choice of frameworks/libraries, create an API that accepts JSON posted to `/flights`, filters that data, and returns a few fields for each flight.

From the list of flights in the request, return those that are not a codeshare flight, and arrive or depart in SYD. A codeshare is a flight that has an `airline` that is not `QF`.

The response should be valid JSON object with a `flights` key with the filtered array of flights. Each flight should have just the following fields from the request:

- `flight` - concatnation of `airline` and `flightNumber` e.g. `QF404`
- `origin` - IATA code from `departure.airport`
- `destination` - IATA code from `arrival.airport`
- `departureTime` - ISO Date + Time of departure, from `departure.scheduled`

Example request and response payloads are included.

Error handling

If invalid JSON is returned, you must return an error with an appropraite HTTP response code and a JSON response of:

```
{
    "error": "Error parsing JSON",
}
```

Deploying

Once completed, deploy your service so we can run it remotely. We would suggest either now.sh or Heroku, both which have free accounts and should be straightforward to deploy once completed.

We're looking to guage your skill on creating a new service from scratch, so please create this as a standalone service and deploy it at the root of a domain (http://myproject.herokuapp.com/flight) - both of these services should do this by default.

Finished?

Push all your work to GitHub and email us the URL to the repo and deployed service. Feel free to include some comments - anything you think could be improved with this test.

Finally, don't be daunted. We have a friendly team of developers in here. If you have any problems, please feel free to get in touch. We'll be happy to help you past any potholes you might be stuck in. At the very least we'll be able to point you in the right direction.

✈️