# 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](now.sh) or [Heroku](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.

✈️