## **AIRPORT CHALLENGE**

## **TASKS**

We have a request from a client to write the software to control the flow of planes at an airport. The planes can land and take off provided that the we ather is sunny. Occasionally it may be stormy, in which case no planes can l and or take off. Here are the user stories that we worked out in collaborati on with the client:

As an air traffic controller

So I can get passengers to a destination

I want to instruct a plane to land at an airport and confirm that it has lan ded

As an air traffic controller

So I can get passengers on the way to their destination

I want to instruct a plane to take off from an airport and confirm that it is no longer **in** the airport

As an air traffic controller

To ensure safety

I want to prevent takeoff when weather is stormy

As an air traffic controller

To ensure safety

I want to prevent landing when weather is stormy

As an air traffic controller

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To ensure safety
I want to prevent landing when the airport is full
As the system designer
So that the software can be used for many different airports
I would like a default airport capacity that can be overridden as appropriat e
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Your task is to test drive the creation of a set of classes/modules to satisfy all the above user stories. You will need to use a random number generator to set the weather (it is normally sunny but on rare occasions it may be stormy). In your tests, you'll need to use a stub to override random weather to ensure consistent test behaviour.

## Requirements

- Jasmine or Mocha & Chai (latest versions)
- Feel free to use google, your notes, books, etc. but work on your own