airport_challenge / User_stories.txt

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```
Fetching contributors...
```

40

41

methods

landing/taking off/stormy?/full?

```
42 lines (28 sloc) | 1.07 KB
       As an air traffic controller
  2
       So I can get passengers to a destination
      I want to instruct a plane to land at an airport
  4
  5
       1. plane <--(land)--> airport
  6
  7
       As an air traffic controller
  8
       So I can get passengers on the way to their destination
  9
      I want to instruct a plane to take off from an airport and confirm that it is no longer in the airport
  10
       2. plane <--(take_off)--> airport
  11
  12
  13
       As an air traffic controller
       To ensure safety
  14
  15
       I want to prevent takeoff when weather is stormy
  16
  17
       3. plane --(take_off)--(stormy?)--> can't take off
  18
  19
       As an air traffic controller
  20
      To ensure safety
  21
       I want to prevent landing when weather is stormy
  22
  23
       4. plane --(land)--(stormy? = true)--> can't land
  24
  25
       As an air traffic controller
      To ensure safety
  26
       I want to prevent landing when the airport is full
  27
  28
  29
       5. plane --(land)--(capacity? = full)--> can't land
  30
  31
       As the system designer
  32
       So that the software can be used for many different airports
  33
       I would like a default airport capacity that can be overridden as appropriate
  34
       6. capacity = DEFAULT_CAPACITY = 15
  35
  36
  37
       Classes
       Plane/Airport/Weather
  38
  39
```

airport_challenge / lib / airport.rb

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```
41 lines (33 sloc) 878 Bytes
       require_relative "plane"
  2
       require_relative "weather"
  3
  4
       class Airport
  5
         DEFAULT_CAPACITY = 15
         attr_reader :planes
  6
  7
         attr_accessor :capacity, :weather
  8
           # hashes rather than = as have more than one argument!!!!!
         def initialize(capacity: DEFAULT_CAPACITY, weather: Weather.new)
  9
  10
           @planes = []
  11
           @weather = weather
  12
           @capacity = DEFAULT_CAPACITY
  13
         end
  14
  15
         def land(a_plane)
  16
           fail "Bad weather, too dangerous to land" if stormy?
  17
           fail "Airport full" if full?
           @planes.push(a_plane) # undefined method << and .push???</pre>
  18
           "The plane has landed"
  19
  20
         end
  21
  22
         def take_off(a_plane)
  23
           fail "No planes" if @planes.empty?
  24
           fail "Bad weather, all planes grounded" if stormy?
  25
           @planes.delete(a_plane)
  26
           "The plane has taken off"
  27
         end
  28
  29
       private
  30
  31
         def stormy?
  32
           @weather.the_weather == :stormy
  33
         end
  34
  35
         def full?
           @planes.length == @capacity
  36
  37
  38
       end
  39
  40
       # done!!!
```

makersacademy / airport_challenge

done!!!

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8 lines (4 sloc) | 56 Bytes

require_relative "airport"

class Plane

end

airport_challenge / lib / weather.rb

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```
15 lines (10 sloc) | 157 Bytes
       class Weather
   2
   3
         def the_weather
           stormy? ? :stormy : :sunny
   4
   5
         end
   6
       private
   8
         def stormy?
   9
           rand(6) == 1 \# 1/6 \text{ chance of a storm}
  10
  11
         end
  12
       end
  13
  14
       # done!!!
```

airport_challenge / spec / airport_spec.rb

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```
57 lines (45 sloc) | 1.71 KB
       require "airport"
  2
       require "weather"
  3
       require "plane"
  4
       describe Airport do
  5
         # This allows all tests to have "sunny" weather.
  6
  7
         let :a_plane {double(:a_plane, land: nil, take_off: nil)}
  8
         let :a_weather {double(:a_weather, the_weather: :Sunny)}
  9
         subject {Airport.new(weather: a_weather)}
 10
         describe "#land" do
 11
 12
           it "wont let a plane land due to bad weather" do
 13
             allow(subject).to receive(:stormy?) { true } # same as .and_return (true)
 14
             expect { subject.land(a_plane) }.to raise_error("Bad weather, too dangerous to land")
 15
 16
           end
 17
           it "wont let a plane land as airport is full(default)" do
 18
 19
             Airport::DEFAULT_CAPACITY.times { subject.land(Plane.new) }
 20
             expect { subject.land(Plane.new) }.to raise_error("Airport full")
 21
           end
 22
 23
           it "can instruct a plane to land" do
 24
             expect(subject.land(a_plane)).to eq "The plane has landed"
 25
           end
 26
 27
           it "changes the capacity of the airport to 5" do
 28
             subject.capacity = 5
             expect(subject.capacity).to eq 5
 29
 30
           end
 31
           it "wont let a plane land due to overide capacity" do
 32
             subject.capacity = 20
 33
             subject.capacity.times { subject.land(Plane.new) }
 34
             expect { subject.land(Plane.new) }.to raise_error("Airport full")
 35
 36
           end
 37
         end
 38
 39
         describe "#take_off" do
 40
           it "can allow a plane take off" do
 41
 42
             subject.land(a_plane)
 43
             expect(subject.take_off(a_plane)).to eq("The plane has taken off")
           end
 44
 45
           it "can confirm a plane has taken off" do
 46
 47
             expect(subject.planes).to be_empty
 48
           end
 49
           it "wont allow a plane to take off due to bad weather" do
 50
             subject.land(a_plane)
 51
 52
             allow(subject).to receive(:stormy?) { true }
 53
             expect { subject.take_off(a_plane) }.to raise_error("Bad weather, all planes grounded")
 54
           end
 55
         end
 56
       end
```

airport_challenge / spec / feature_spec.rb

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13

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a_airport.full?

```
14 lines (13 sloc) | 354 Bytes
      # require "plane"
      # require "airport"
      # require "weather"
      # a_plane = Plane.new
      # a_airport = Airport.new
      # a_airport.land(a_plane)
  6
      # a_airport.take_off(a_plane)
      # a_airport.take_off(a_plane)
   8
      # 15.times{ a_airport.land(Plane.new) }
      # 10.times{ a_airport.take_off(plane) }
  10
      # a_airport.capacity = 10
  11
      # 5.times{ a_aiport.land(Plane.new) }
 12
```

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done!!!

Tree 047c3cccaa vairport_challenge / spec / plane_spec.rb

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8 lines (4 sloc) | 51 Bytes

1 require "plane"
2 describe Plane do
4 end
5 end

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airport_challenge / spec / weather_spec.rb Tree: 047c3cccaa ▼

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```
20 lines (14 sloc) 380 Bytes
       require "weather"
  2
  3
       describe Weather do
  4
        describe "#the_weather" do
  5
  6
          it "When equal to 1, stormy weather" do
  7
             allow(subject).to receive(:rand) { 1 }
  8
             expect(subject.the_weather).to eq :stormy
  9
 10
           end
 11
          it "When equal to 2, sunny weather" do
 12
             allow(subject).to receive(:rand) { 2 }
 13
             expect(subject.the_weather).to eq :sunny
 14
 15
           end
 16
         end
 17
       end
 18
 19
       # done!!!
```