

# Mocking Out Dependencies

## We'll cover the following

- Using mock
- Creating an interaction test
- Testing for data parsing

Dependencies often make testing hard. Our code needs to get the status of airports from a remote web service. The response from the service will be different at different times due to the nature of the data. The web service may fail intermittently, the program may run into a network failure, and so on. All these situations make it hard to write unit tests, which should be FAIR, for a piece of code that has to talk to such non-deterministic, and by their nature, unreliable external dependencies. This is where mocks come in.

A mock is an object that stands in for the real object, much like how a stunt person, instead of your favorite high-paid actor, stands in or jumps off a cliff in an action thriller. During normal execution the code under test will use the real dependency. During automated testing, however, the mock will replace the real dependency so the test can be run FAIRly.

## Using mock #

To facilitate unit testing of code with dependencies, the test will prepare a mock to return a canned response, attach the mock to the code under test, run the test, verify the result is as expected, and, finally, verify with the mock that the code under test interacted with its dependency as expected.

To learn how to create and use mocks, let's turn our attention to the method that will get data from the remote FAA web service. Given an airport code, the web service returns a JSON response with the airport status data. Getting this data involves two actions: first, we have to send a request to the service URL and, second, we have to parse the response and deal with any possible errors.

Parsing data is straightforward; given a string containing JSON data, extract the necessary details from it. If there was an error, deal with it appropriately. We can easily write tests for that. It's getting the data from the URL that makes this feature unpredictable and hard to test. We can mock that part out by using a level of indirection.

We can devise the solution using two methods instead of one. A `getAirportData()` function can rely upon a `fetchData()` function. We'll write the `fetchData()` function, to get the real data from the FAA web service, later. For now, we'll leave it with a TODO implementation, by throwing an exception if it's called. The `getAirportData()` function can then call `fetchData()` and parse the response JSON string to extract the data. In the test, we'll mock out the `fetchData()` function; when `getAirportData()` calls `fetchData()`, the call will go to the mock function instead of calling the real implementation. We'll program the mock function to return a desired canned response.

Many mocking tools are available on the JVM. For example, Mockito is one of the more popular mocking tools for Java. You can use that for mocking dependencies in Kotlin code as well. However, in this chapter we'll use [Mockk](#) for a few good reasons. First, Mockk is capable of easily mocking `final` classes, and that goes in hand with the fact that in Kotlin classes are `final` by default.

Second, Mockk offers nice capabilities to mock dependencies on singleton objects/companion objects and also to mock extension functions. Mockk also provides facilities to test coroutines. In short, when we use features that are specific to Kotlin, we can benefit from a tool that was created to deal with those.

## Creating an interaction test #

Let's start with a test for the `getAirportData()` method of `Airport`, where we'll mock `fetchData()` to return a canned JSON response. In the test, we'll verify that `getAirportData()` called the `fetchData()` function. This is an interaction test as opposed to an empirical test.

Before we can dive into the test, we have to prepare to mock the `fetchData()` function. For this, we first need to import the functions from the Mockk library. While at it, let's also bring along a few more imports we'll need to create the pre- and post listeners to run code before and after each test

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In the top of the `AirportTest.kt` file, after the current imports, add the following import statements:

```
// AirportTest.kt
import io.kotlintest.TestCase
import io.kotlintest.TestResult
import io.mockk.*
```

We'll design the `fetchData()` function to be part of the `Airport's` companion object. To mock that function, we'll have to create a mock of the `Airport` singleton companion object. We can achieve this in a special `beforeTest()` function. The pair of functions `beforeTest()` and `afterTest()` sandwich each test, so that the code within `beforeTest()` runs before each test and the code within `afterTest()` runs after each test. In the `AirportTest` class, right after the fields and before the `init()` function, add the following two functions:

```
override fun beforeTest(testCase: TestCase) {
    mockkObject(Airport)
}

override fun afterTest(testCase: TestCase, result: TestResult) {
    clearAllMocks()
}
```

AirportTest.kt

In the `beforeTest()` function, we've created a mock of the `Airport` singleton using the `mockkObject()` function of the Mockk library. In the `afterTest()` function, at the end of each test, we clear all the mocks that were created and used. Thus, each test can be isolated and independent of each other.

Now we can focus on the test for the `getAirportData()` function. In the `AirportTest` class, let's add a new test after the previous data-driven test for the `sort()` method:

```
"getAirportData invokes fetchData" {
    every { Airport.fetchData("IAD") } returns
    """{"IATA":"IAD", "Name": "Dulles", "Delay": false}"""

    Airport.getAirportData("IAD")

    verify { Airport.fetchData("IAD") }
}
```

In the test to verify that `getAirportData()` invokes `fetchData()`, we first mock—using the `every()` function of Mockk—the `fetchData()` of the `Airport` companion object, so that it returns a canned JSON response if the given airport code is “IAD”. The format of the canned response is an excerpt from the actual response the web service returns—we can find this by visiting the FAA [website](#), using a browser, with IAD as the airport code.

Once the `every()` function is executed, any calls, direct or indirect from within the test, to the `fetchData()` function of `Airport` with argument “IAD” won’t go to the real implementation. Instead, such a call will result in the canned response that follows the returns part attached to the `every()` expression.

In the test, after the call to `every()` to set up the mock behavior, we call the yet-to-be-implemented `getAirportData()` function. Then we verify that the `fetchData()` function was called, using Mockk’s `verify()` function. The success of this call to `verify()` will imply that the call to `getAirportData()` resulted in a call to the `fetchData()` function.

Running the build right now will fail, since the methods `getAirportData()` and `fetchData()` don’t exist in the `Airport` companion object. Let’s implement minimally those two functions to satisfy the test.

```
package com.agiledeveloper.airportstatus

data class Airport(val code: String, val name: String, val delay: Boolean) {
    companion object {
        fun sort(airports: List<Airport>) : List<Airport> {
            return airports.sortedBy { airport -> airport.name }
        }
        fun getAirportData(code: String) = fetchData(code)

        fun fetchData(code: String): String {
            throw RuntimeException("Not Implemented Yet for $code")
        }
    }
}
```

The `getAirportData()` function simply calls `fetchData()`, as that’s the current expectation we have for this function. Since our focus is on `getAirportData()`, we shouldn’t care about the implementation of `fetchData()` at this time. Thus, within `fetchData()` we merely throw an exception that it hasn’t been implemented yet.

Run the build and verify that all tests pass.

That worked, but we have to get to a more useful implementation for `getAirportData()`.

## Testing for data parsing #

The `getAirportData()` function at this point merely calls the `fetchData()` function. We have to implement code to parse the response from `fetchData()` to create an `Airport` instance. We'll drive that using the next test.

```
"getAirportData extracts Airport from JSON returned by fetchData" {  
    every { Airport.fetchData("IAD") } returns  
        ""{"IATA":"IAD", "Name": "Dulles", "Delay": false}""  
  
    Airport.getAirportData("IAD") shouldBe iad  
  
    verify { Airport.fetchData("IAD") }  
}
```

AirportTest.kt

The only difference between this test and the previous one is that we verify that `getAirportData()` returns the expected instance of `Airport`.

Running the build now will fail, since the method `getAirportData()` isn't currently returning an instance of `Airport`. Let's implement the code for `getAirportData()` to use the Klaxon parser—we saw this in [Chapter 17, Asynchronous Programming](#)—to create an instance of `Airport` from the JSON response that `getAirportData()` receives from `fetchData()`. To help Klaxon easily parse the JSON data and create an instance of `Airport`, we'll annotate the properties of the class with `@Json`. This will help the Klaxon parser to map the values in the JSON response to the appropriate properties in the object. This annotation is necessary only if the property names within the object are different from the property names in the JSON data.

```
package com.agiledeveloper.airportstatus  
  
import com.beust.klaxon.*  
  
data class Airport(  
    @Json(name = "IATA") val code: String,  
    @Json(name = "Name") val name: String,  
    @Json(name = "Delay") val delay: Boolean) {  
  
    companion object {
```

```

fun sort(airports: List<Airport>) : List<Airport> {
    return airports.sortedBy { airport -> airport.name }
}

fun getAirportData(code: String) =
    Klaxon().parse<Airport>(fetchData(code)) as Airport

fun fetchData(code: String): String {
    throw RuntimeException("Not Implemented Yet for $code")
}
}
}

```

#### Airport.kt

The properties have been annotated so the Klaxon JSON parser can perform the mapping of JSON properties to the corresponding object properties. The `getAirportData()` function invokes the `fetchData()` function, and passes the result of that call to the `parse()` method of Klaxon. The `parse()` method's return type is a nullable type, `Airport?` in this example. This method will either return an instance that it has created using the given JSON data or it will throw an exception—it never really returns a `null`. So we can convert the returned value of `parse()` from type `Airport?` to `Airport`, using the explicit type-casting operator we saw in [Explicit Type Casting](#).

Run the build and verify that all the tests pass.

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```

The test we wrote for `getAirportData()` assumes that `fetchData()` returned a valid JSON object. But the `fetchData()` method may not always behave that way. If the airport code is invalid, if an airport isn't supported by the web service, if there's a network error, or if Murphy's Law decides to strike in any other way, then the `fetchData()` method won't return valid JSON data. It may return a JSON data which contains some error information instead of airport data, or the method may

which contains some error information instead of airport data, or the method may simply blow up with an exception. If the method returns JSON data with an error, the Klaxon parser will blow up with an exception. Irrespective of whether the parsing results in an exception or we receive an exception from the call to `fetchData()`, our `getAirportData()` method needs to handle the situation gracefully. We'll design our method in such a way that if there's an exception, it will return an `Airport` with the given code but with "Invalid Airport" as the name. Let's write a test for this scenario.

```
"getAirportData handles error fetching data" {
    every { Airport.fetchData("ERR") } returns "{}"

    Airport.getAirportData("ERR") shouldBe
    Airport("ERR", "Invalid Airport", false)

    verify { Airport.fetchData("ERR") }
}
```

AirportTest.kt

If the given airport code is "ERR", the mocked-out `fetchData()` in this test will return a JSON response without any valid airport data (for the purpose of this test, we'll assume that "ERR" is an invalid airport code—no one would dare fly in to an airport with such a code anyway). Upon seeing the response JSON, the Klaxon parser will blow up with an exception. The test sets the expectation that our `getAirportData()` method, which internally calls the parser, should return an `Airport` instance with the given code and an invalid name.

To make this test pass we have to modify the `getAirportData()` method, like so:

```
fun getAirportData(code: String) =
    try {
        Klaxon().parse<Airport>(fetchData(code)) as Airport
    } catch (ex: Exception) {
        Airport(code, "Invalid Airport", false)
    }
```

Airport.kt

The method wraps the call to `parse()` and `fetchData()` in a `try` block, and in the `catch` block it returns the expected `Airport` instance that indicates a failure.

Run the tests and verify all the tests are passing.

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With the aid of a few tests, we designed the `getAirportData()` method, but the implementation of the `fetchData()` method is incomplete. The `fetchData()` method has to make a network call, and the test for that will be an integration test rather than a unit test. We'll visit that later, but let's continue on with our focus on unit testing. Let's leave the `Airport` class for now and look at the code for the class just to the left of it in the design diagram in [The Code Under Test](#): the `AirportStatus`.

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