

Testing and Implementing Business Logic



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Module Outline



DeskBooker.Core project

- DeskBookingRequestProcessor class

Understand the requirements

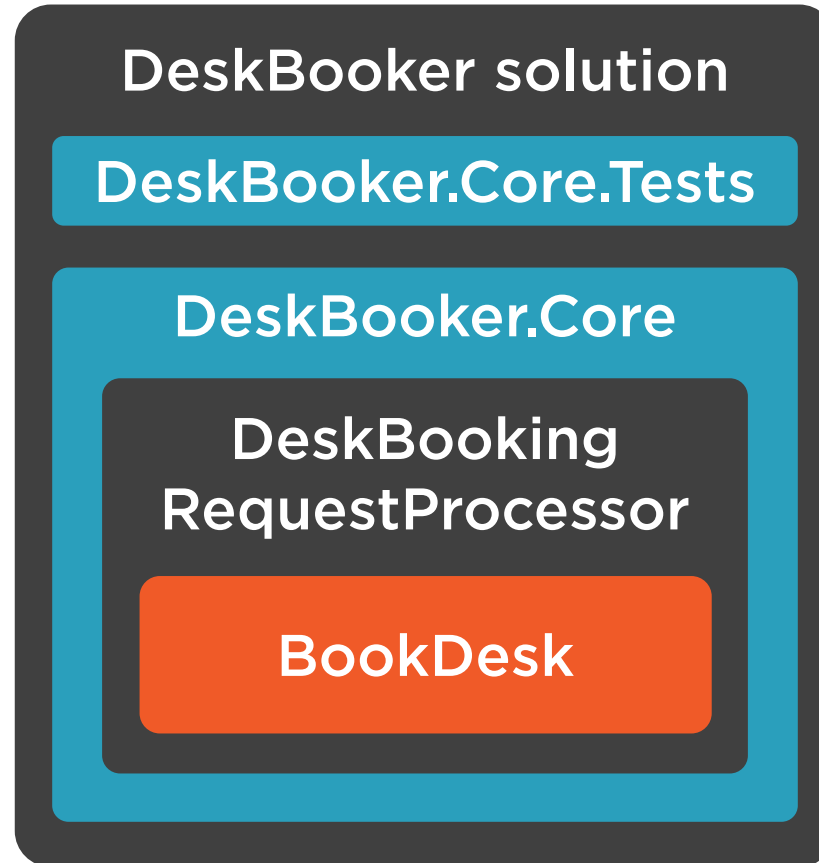
Decouple dependencies

Use Test Driven Development

- Test and implement the requirements
- Mock dependencies in tests



Understand the Requirements



Understand the Requirements

**DeskBooking
RequestProcessor**

BookDesk

Requirements

Return result with request values

Throw exception if request is null

Save a desk booking

Check if a desk is available

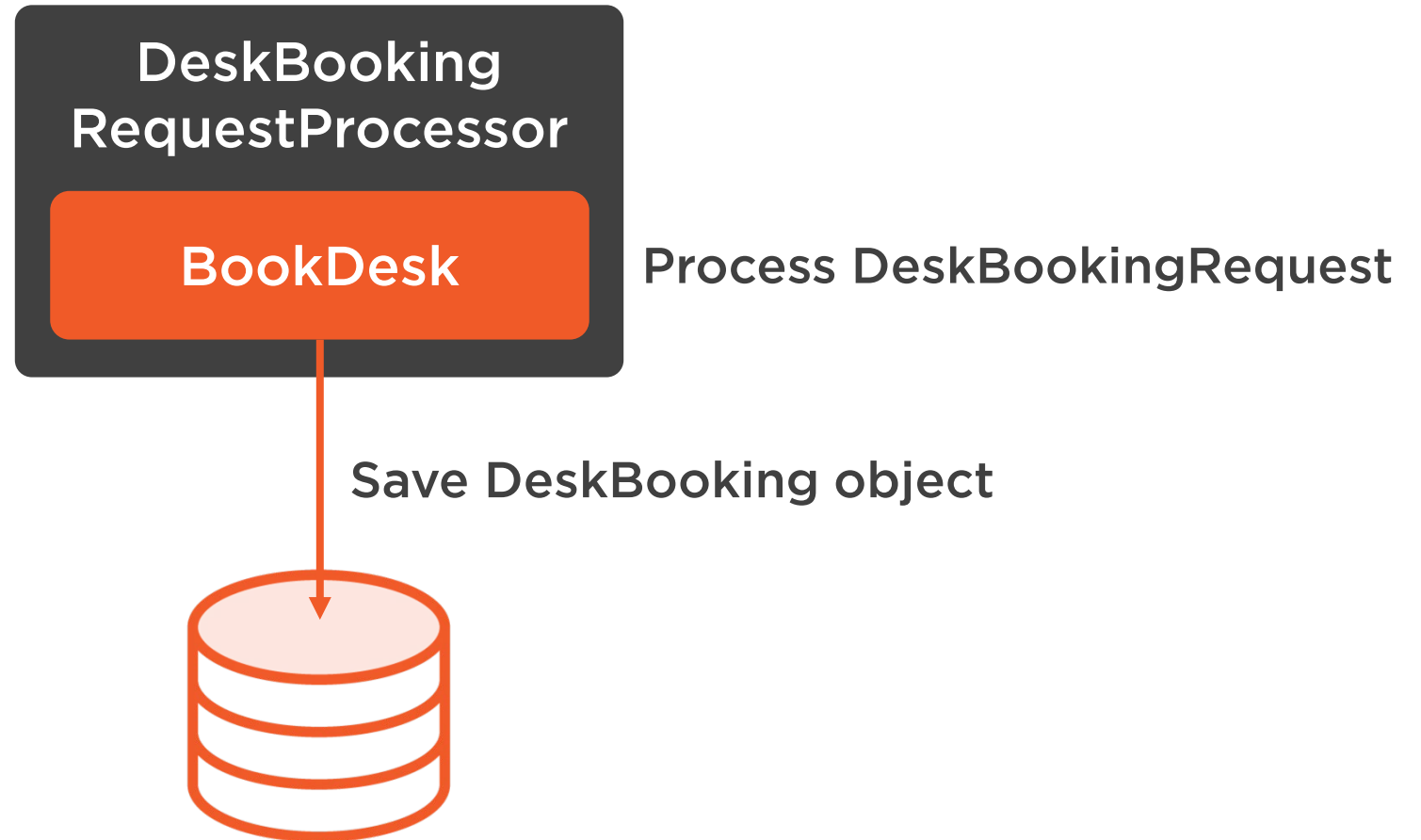
Store the desk id on the booking

Return Success or NoDeskAvailable result code

Set the desk booking id on the result



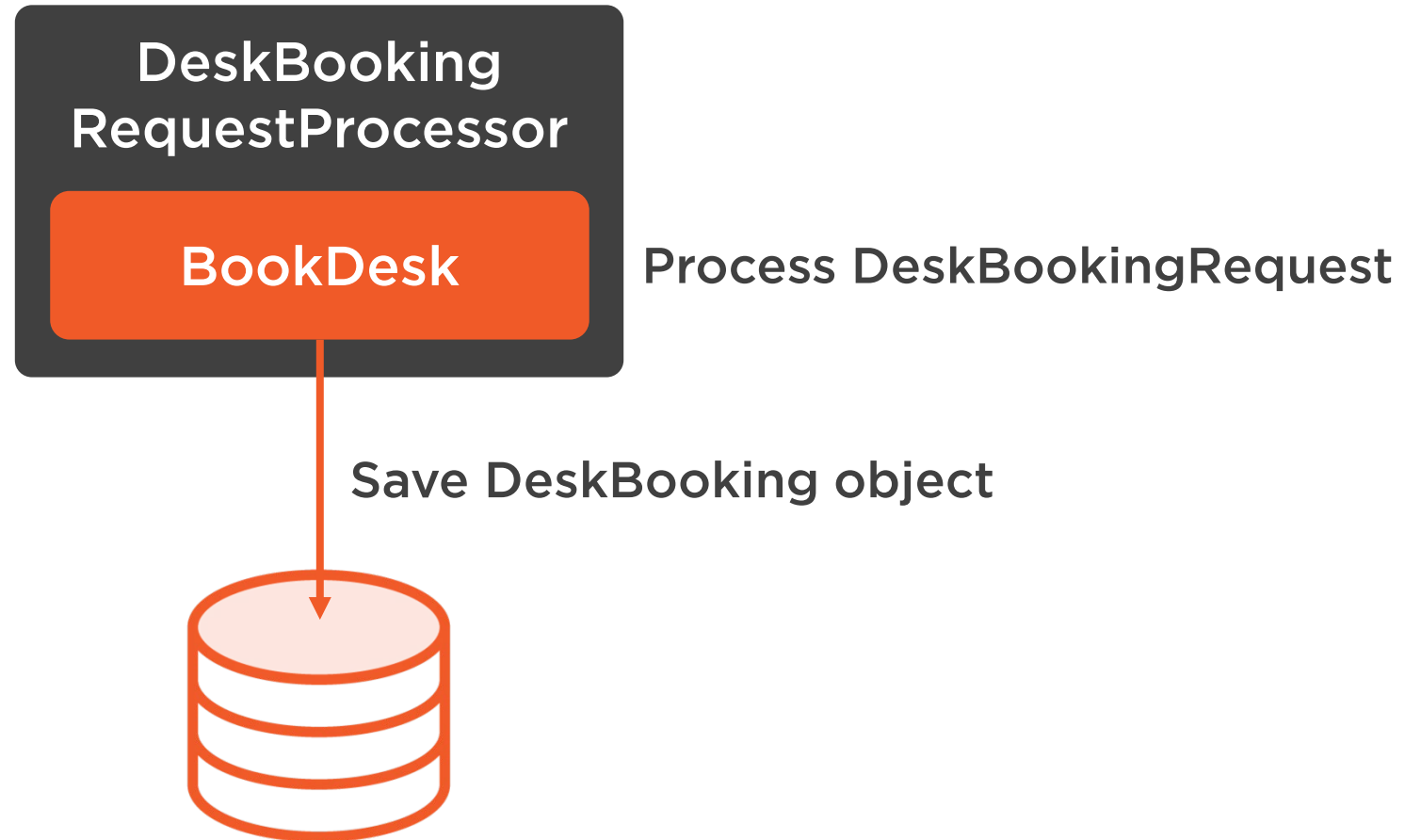
Know How to Decouple Dependencies



Single Responsibility Principle



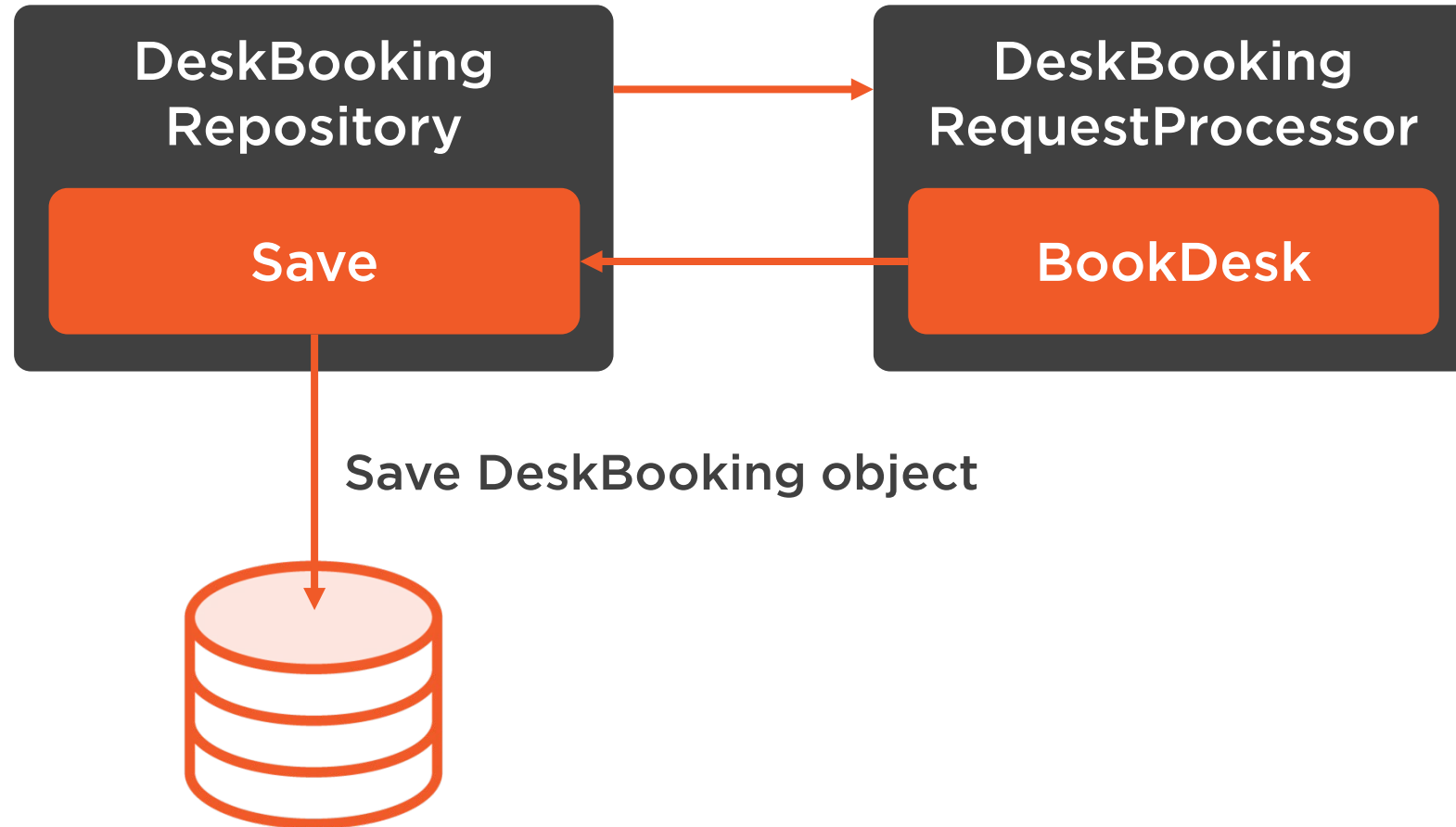
Know How to Decouple Dependencies



A class or method should
have only one reason
to change



Know How to Decouple Dependencies



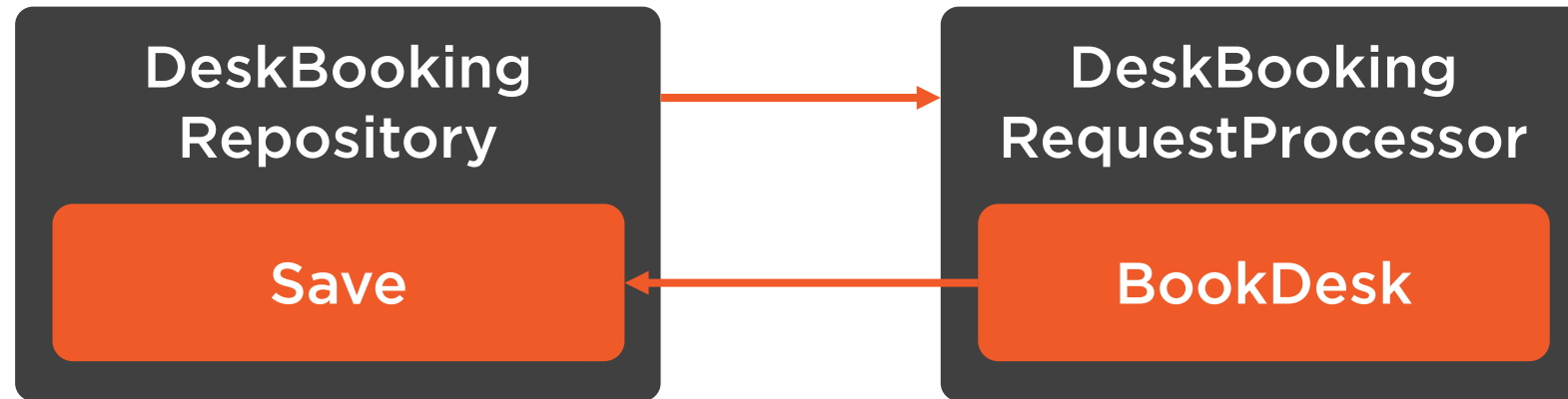
Dependency Inversion Principle



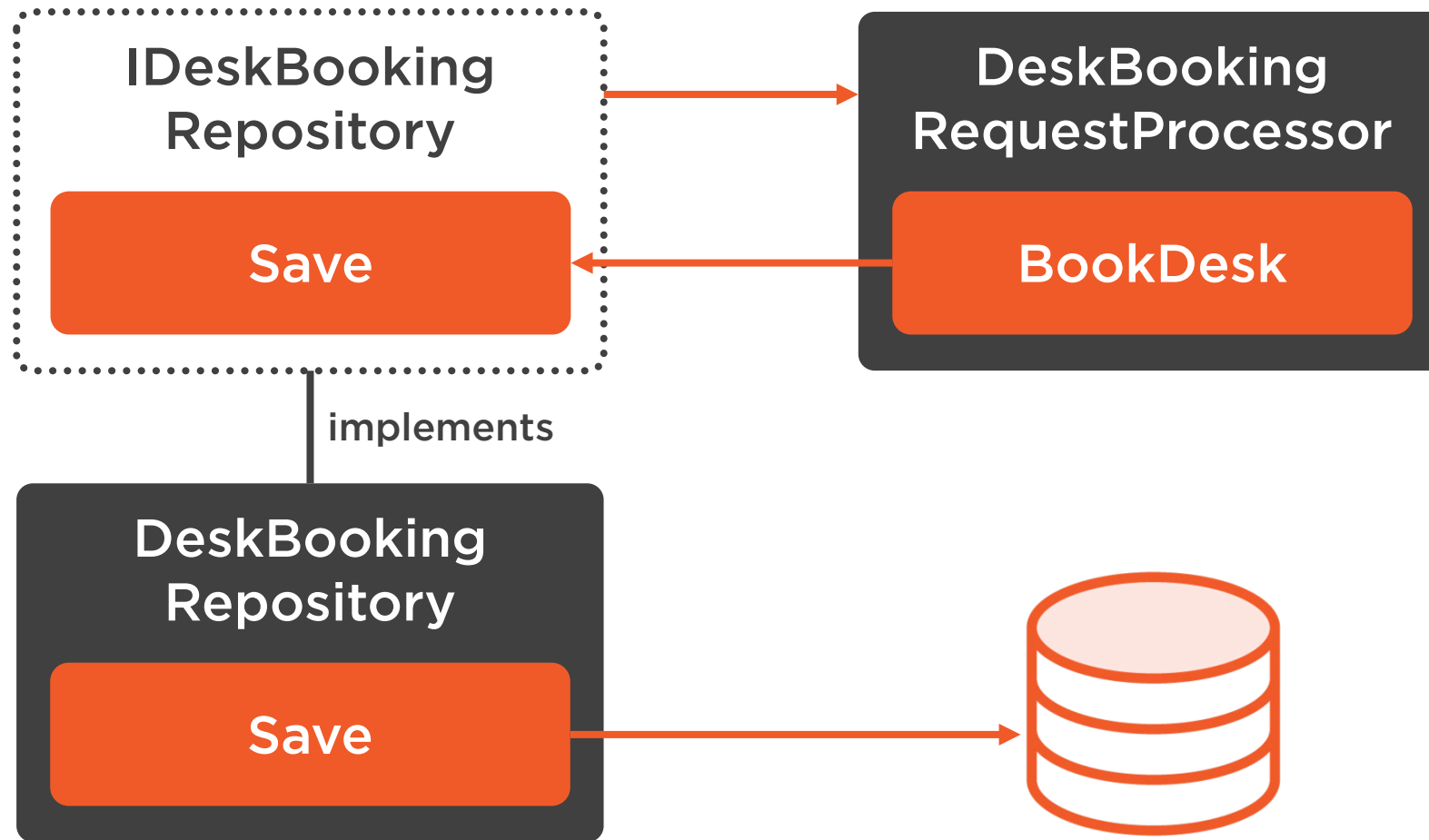
Components must depend
on abstractions and not on
implementations



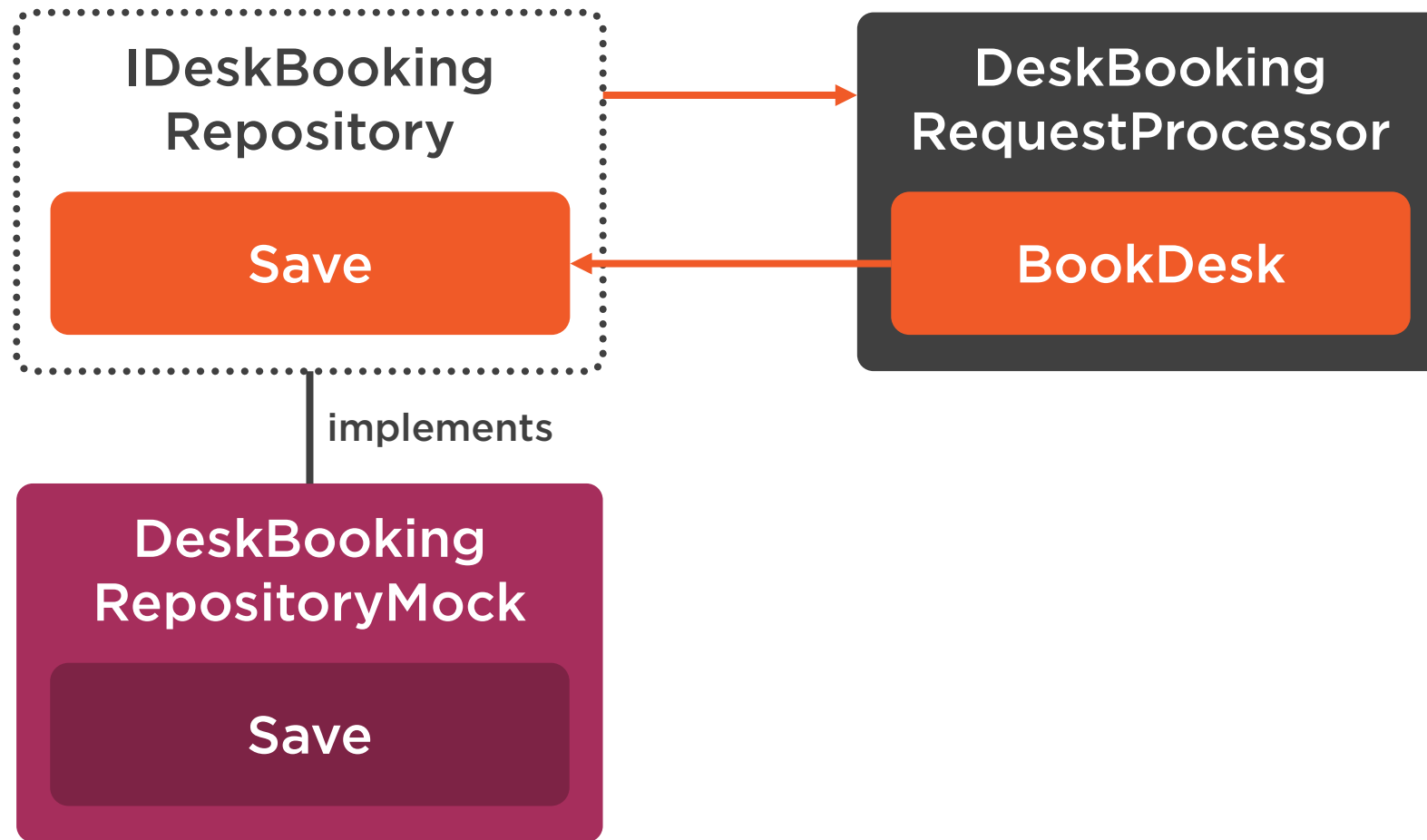
Know How to Decouple Dependencies



Know How to Decouple Dependencies



Know How to Decouple Dependencies



Demo

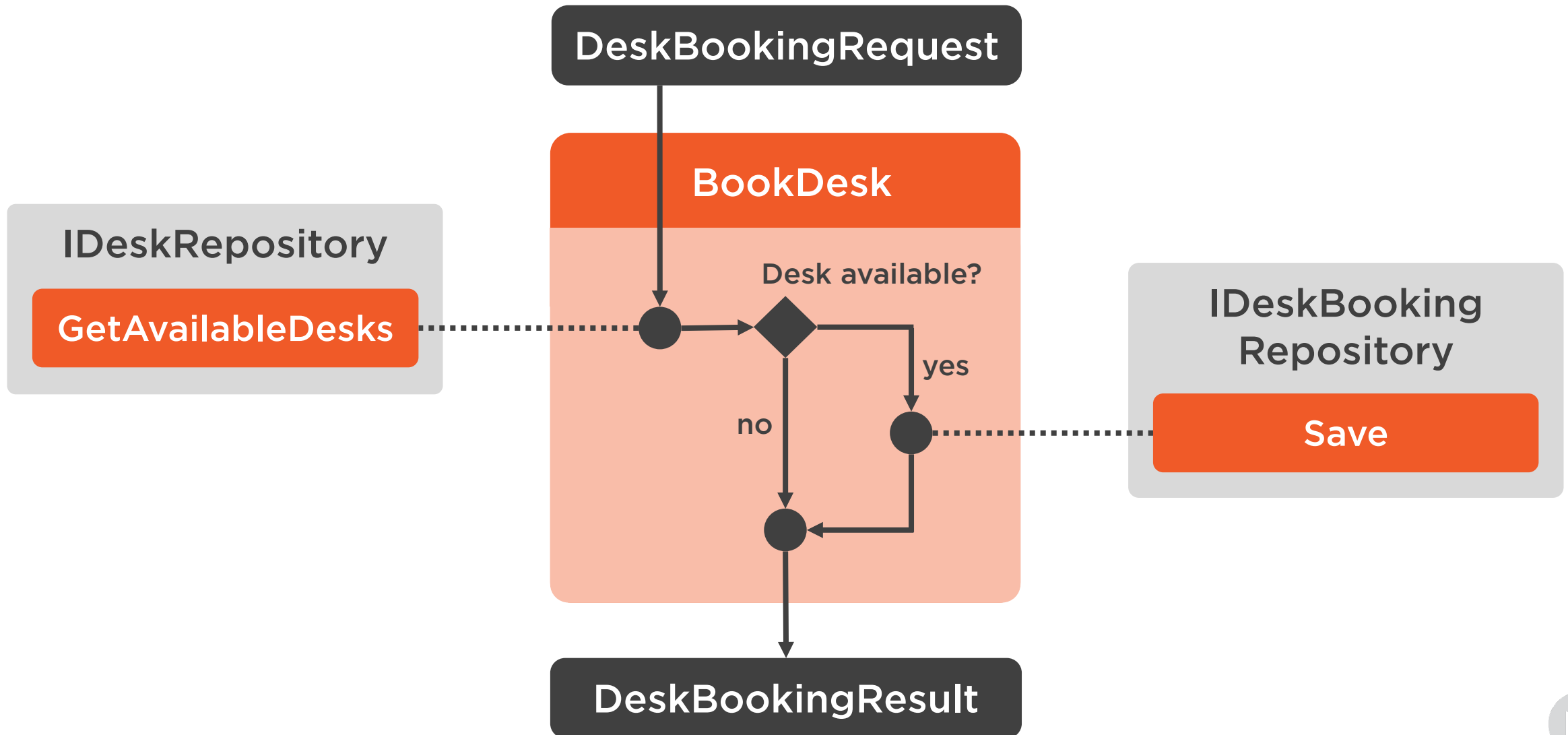


Save a desk booking

- Write a test
- Implement the logic
- Refactor the code



Check if a Desk Is Available



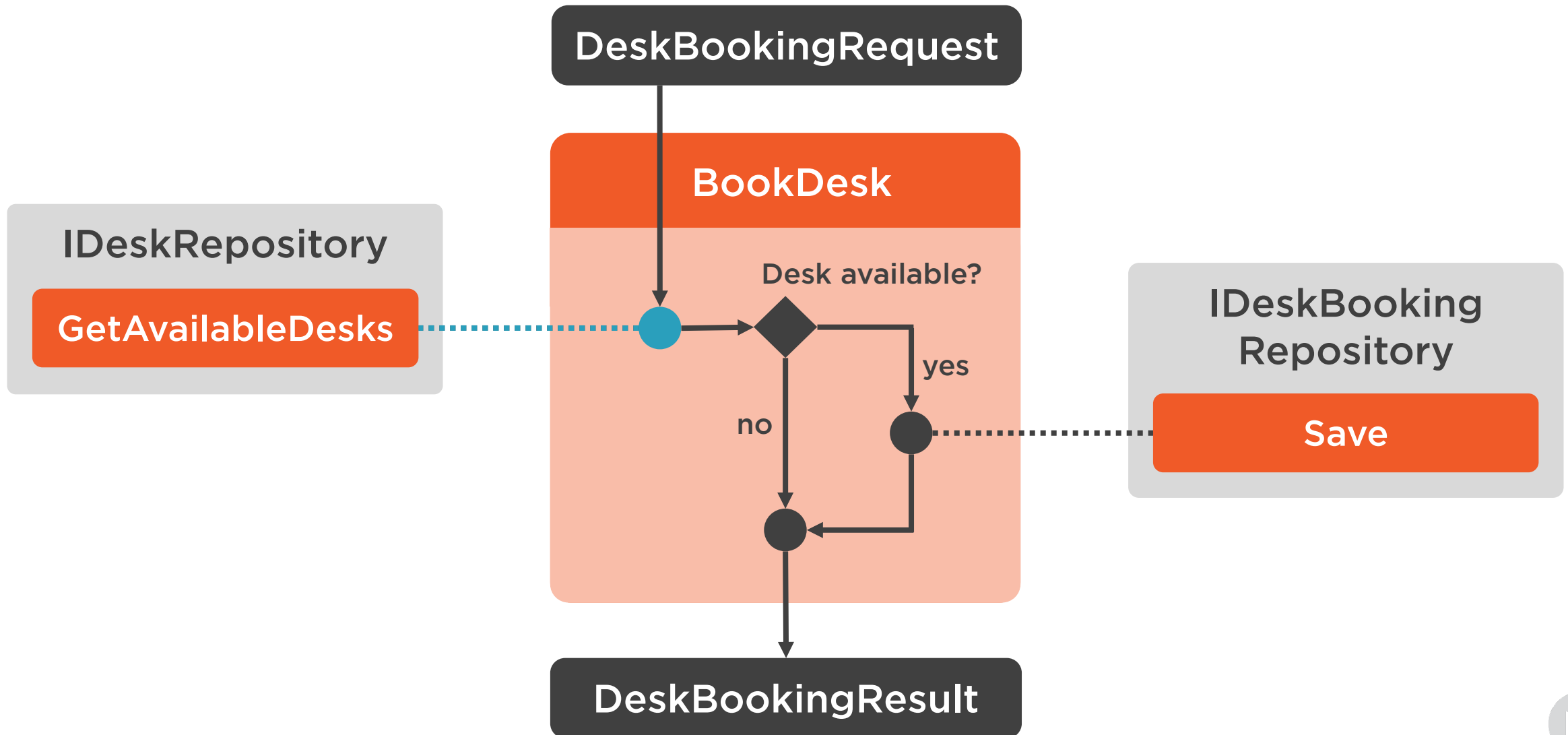
Demo



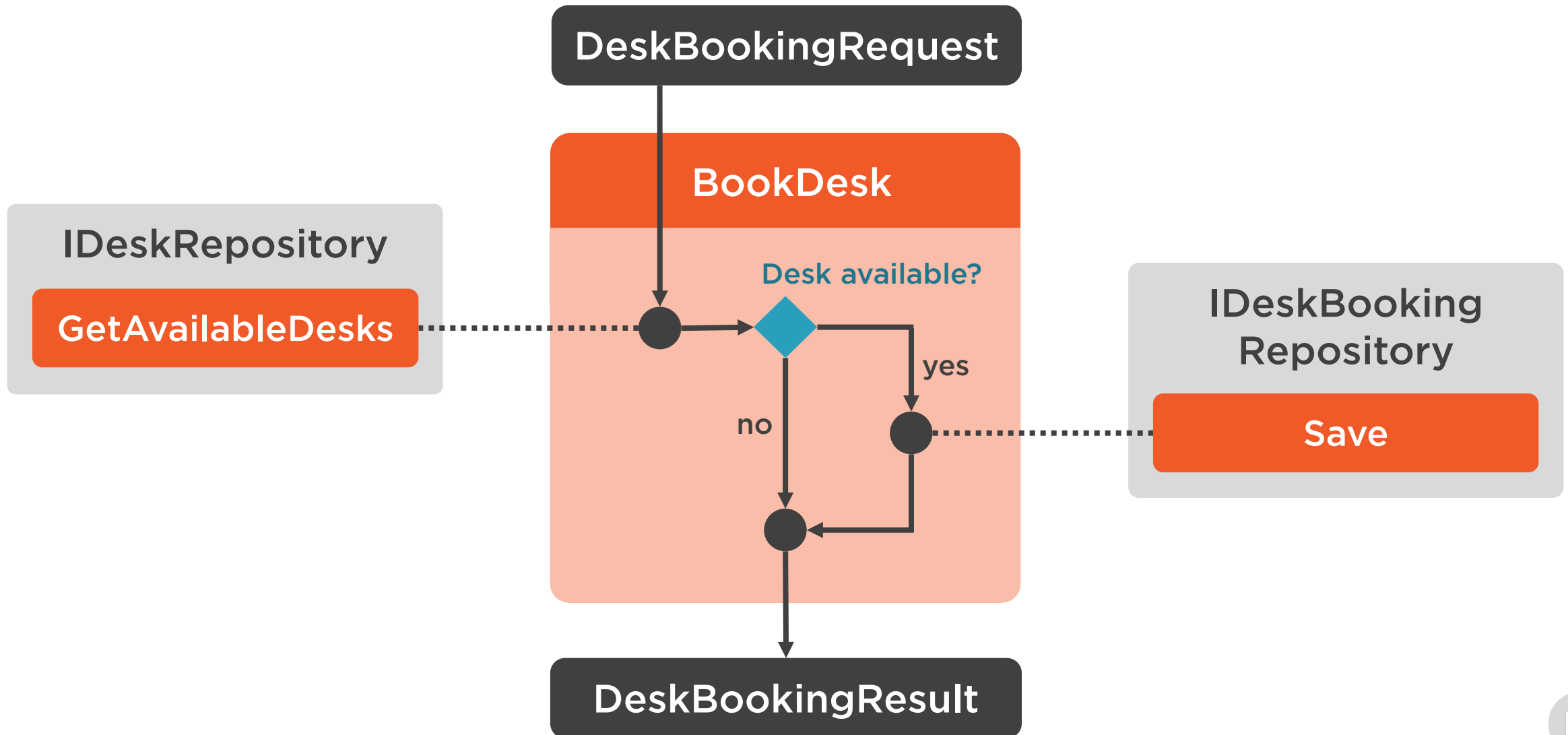
Check if a desk is available



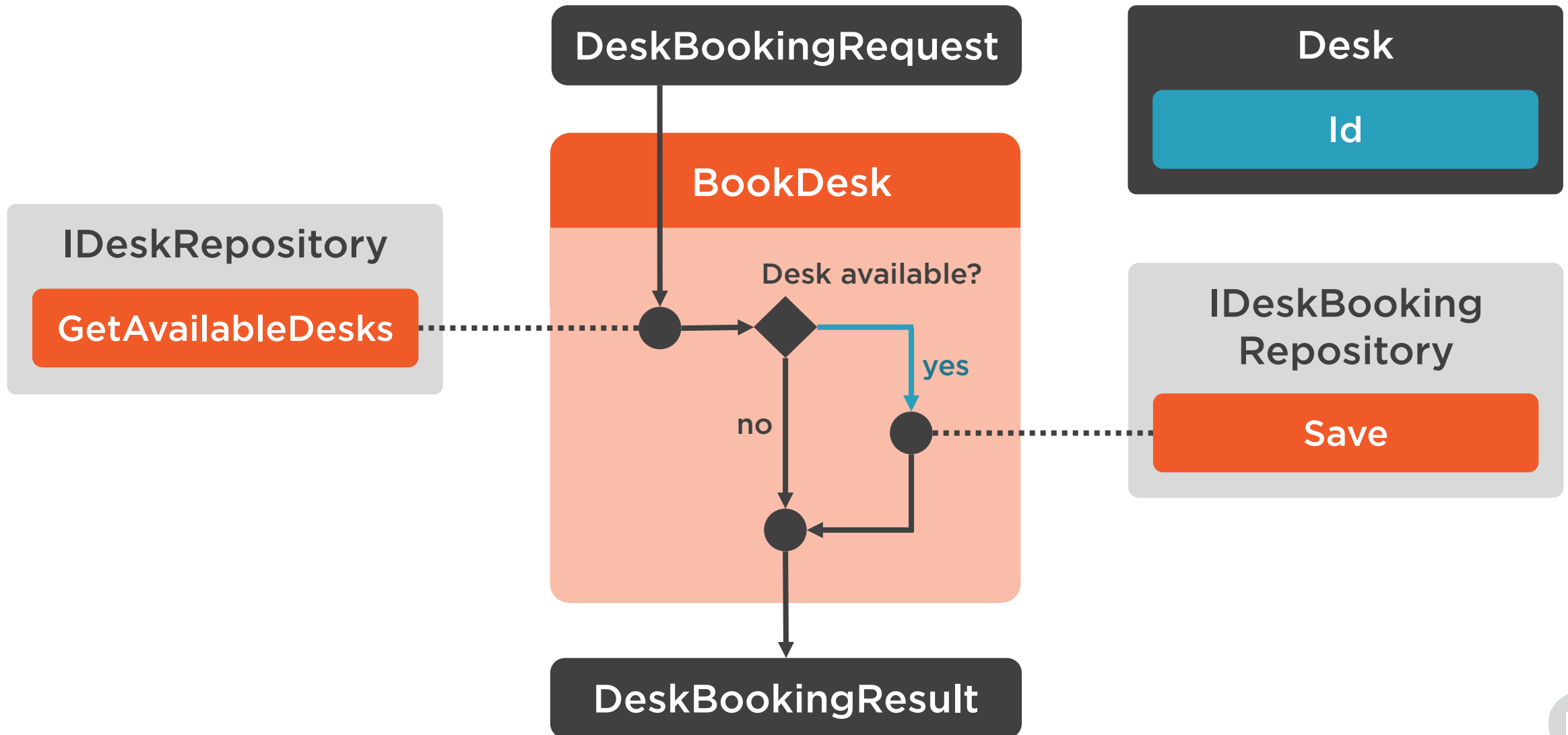
Store the Desk Id on the Booking



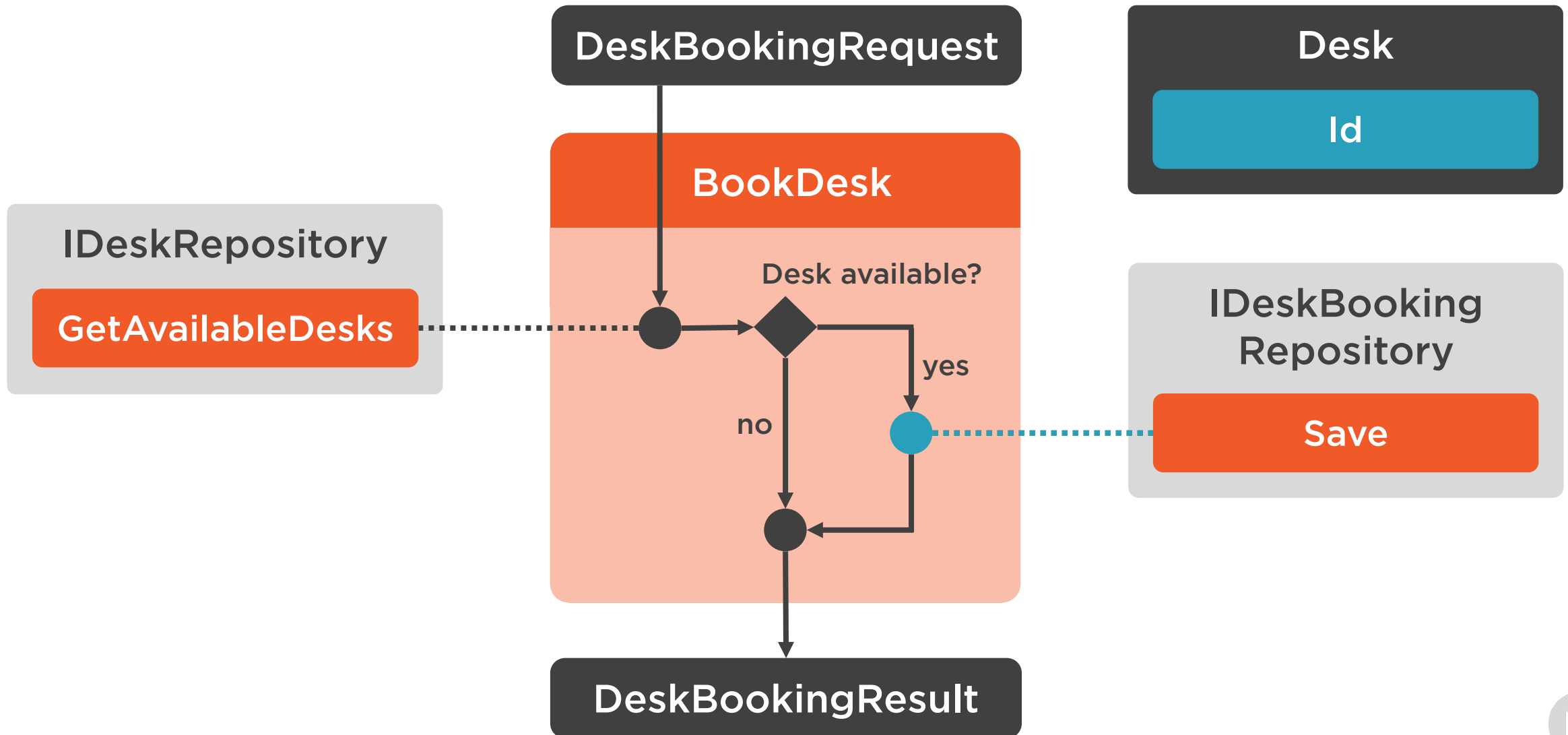
Store the Desk Id on the Booking



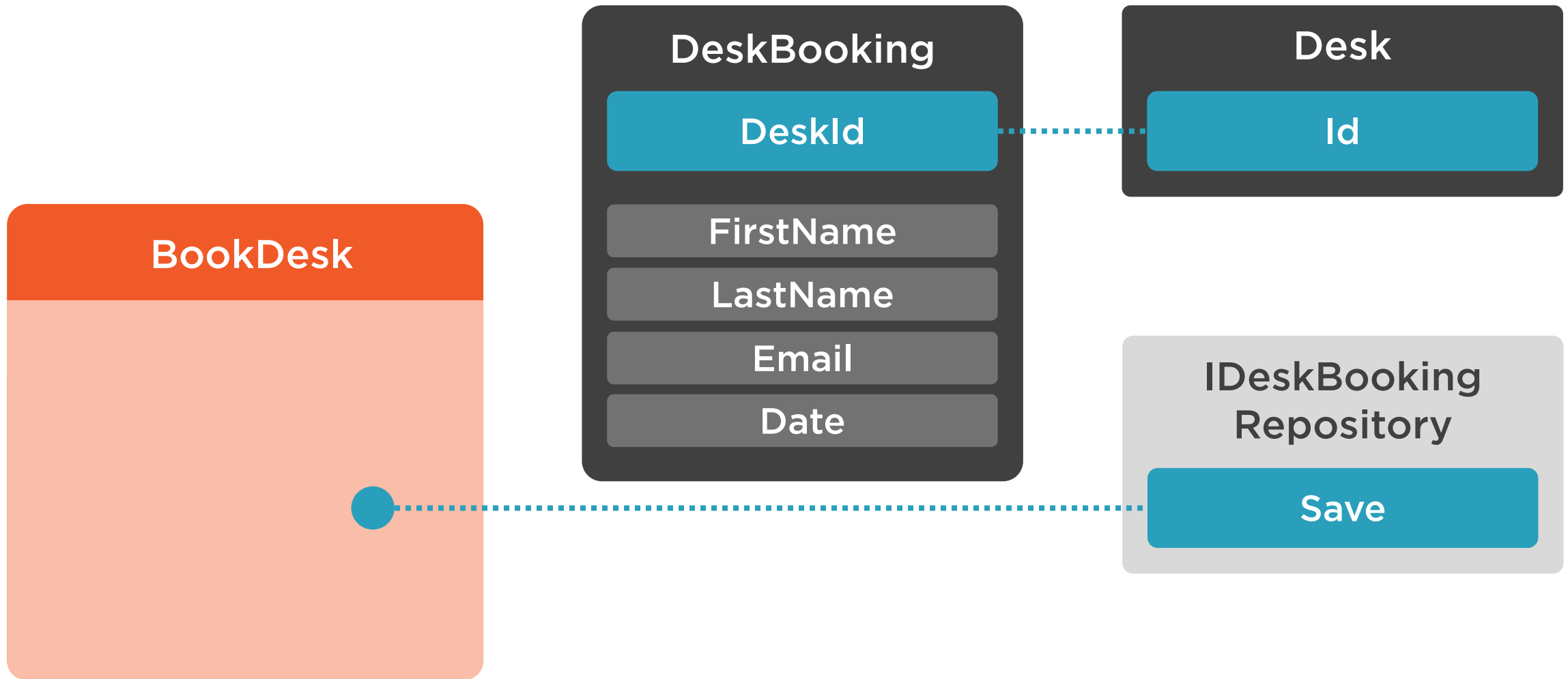
Store the Desk Id on the Booking



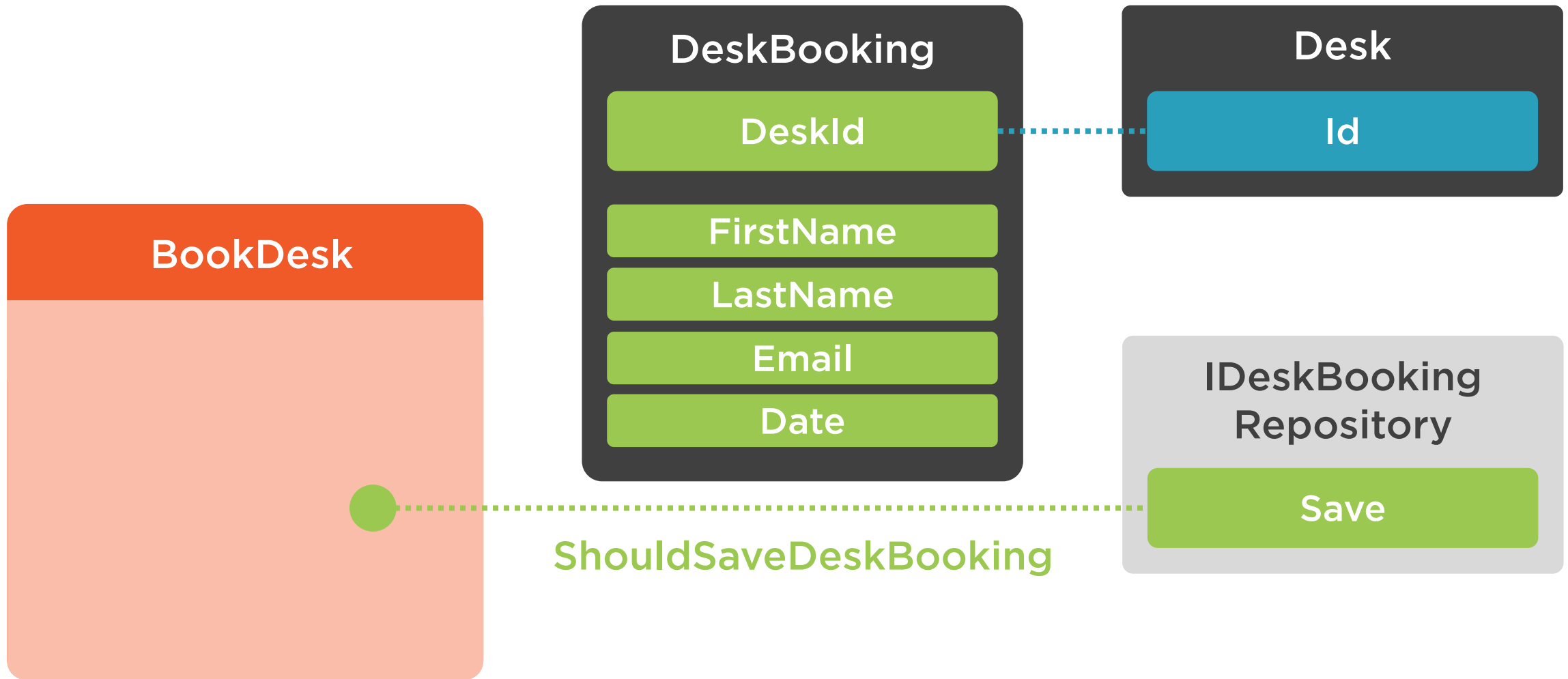
Store the Desk Id on the Booking



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Store the Desk Id on the Booking



Demo

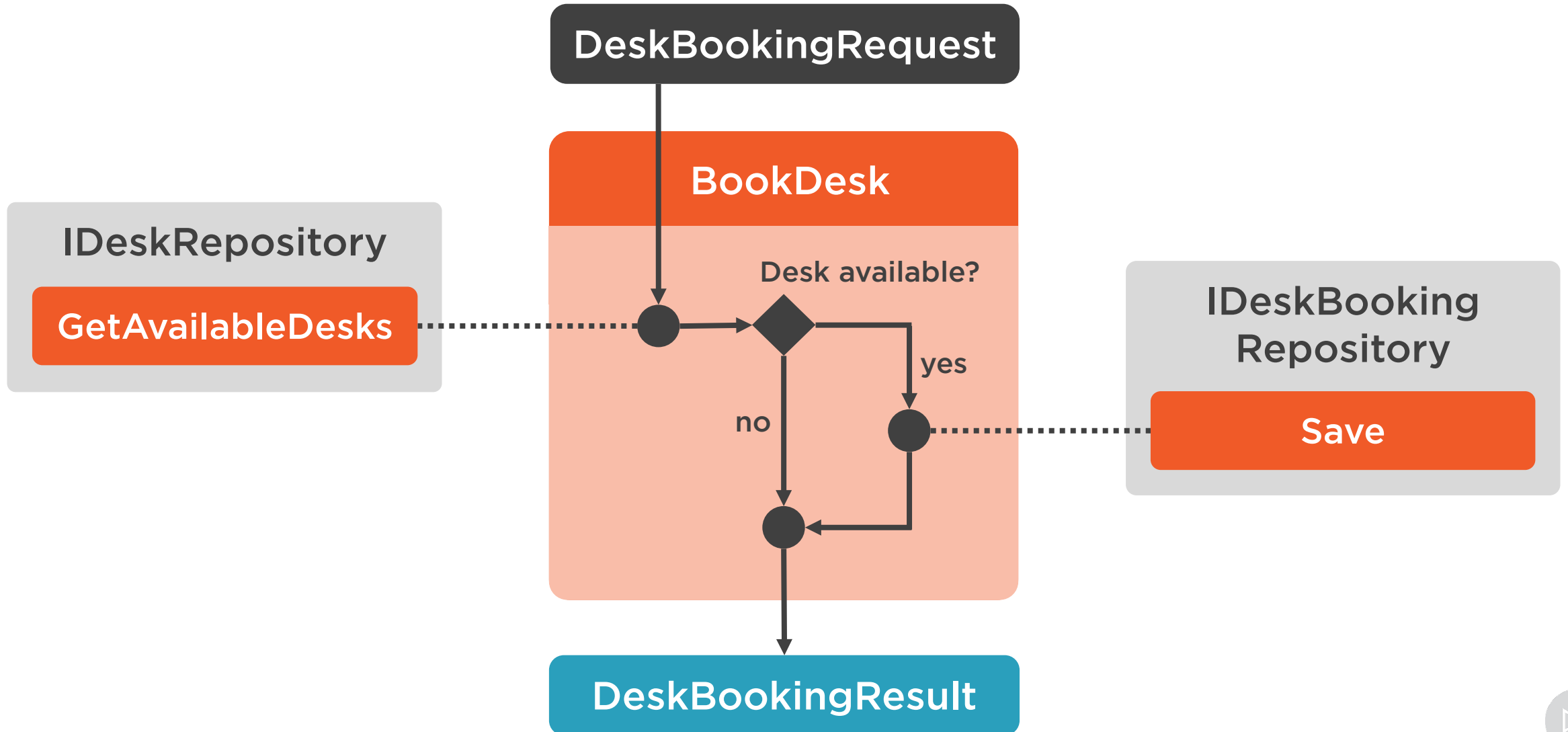


Adjust the existing test

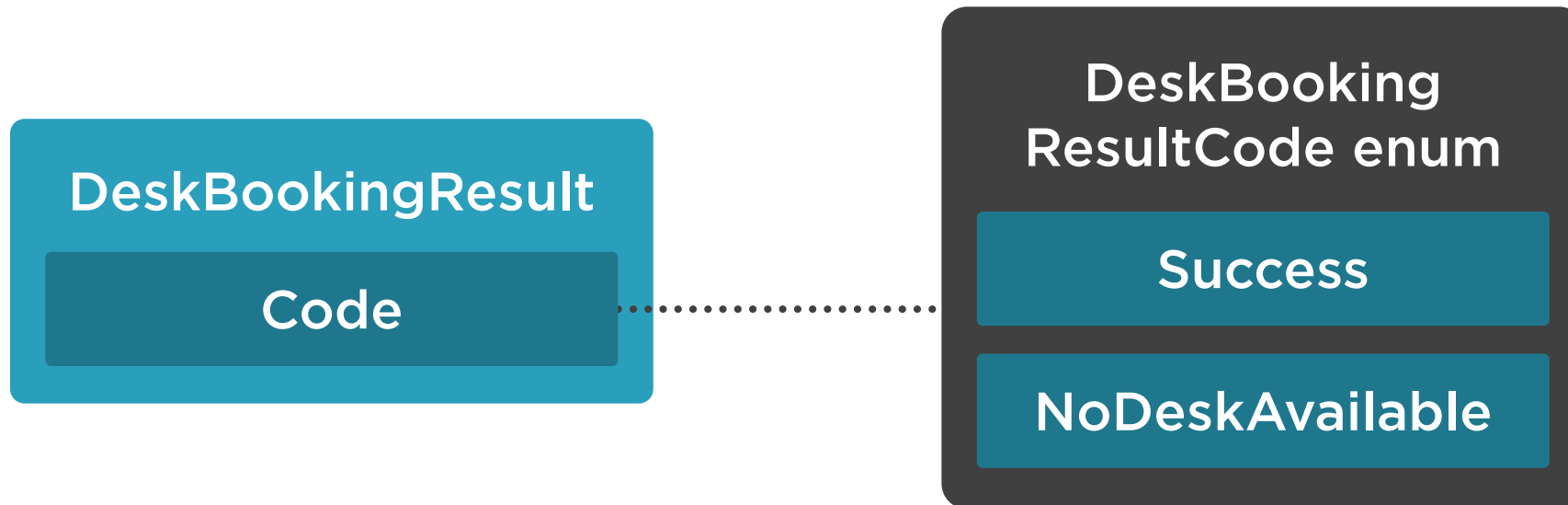
Implement the logic



Return Success or NoDeskAvailable Result Code



Return Success or NoDeskAvailable Result Code



Demo

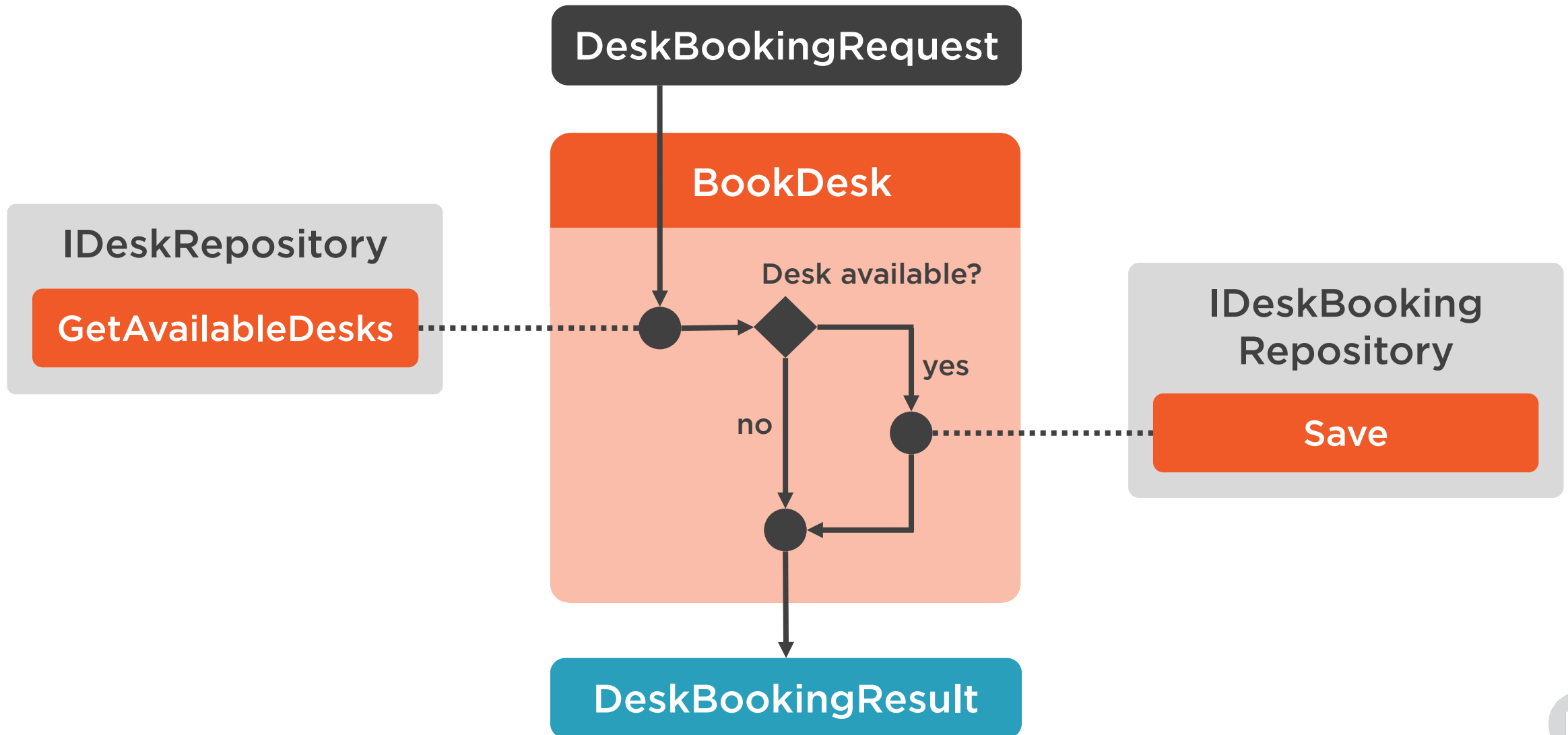


Write a data-driven test

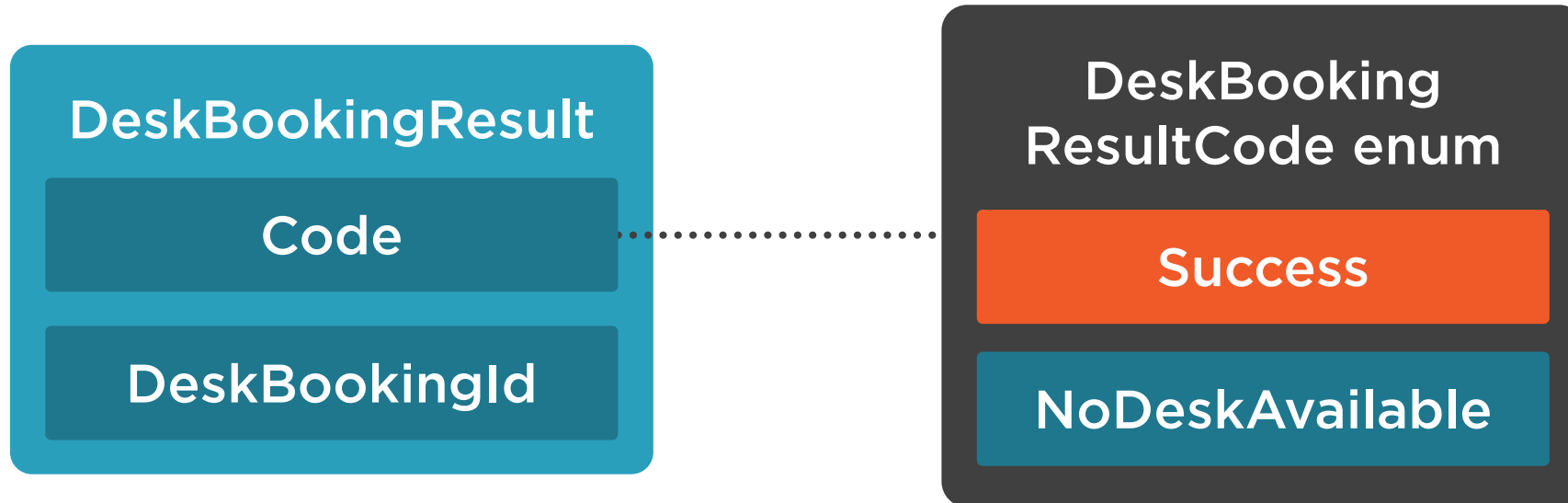
Implement the logic



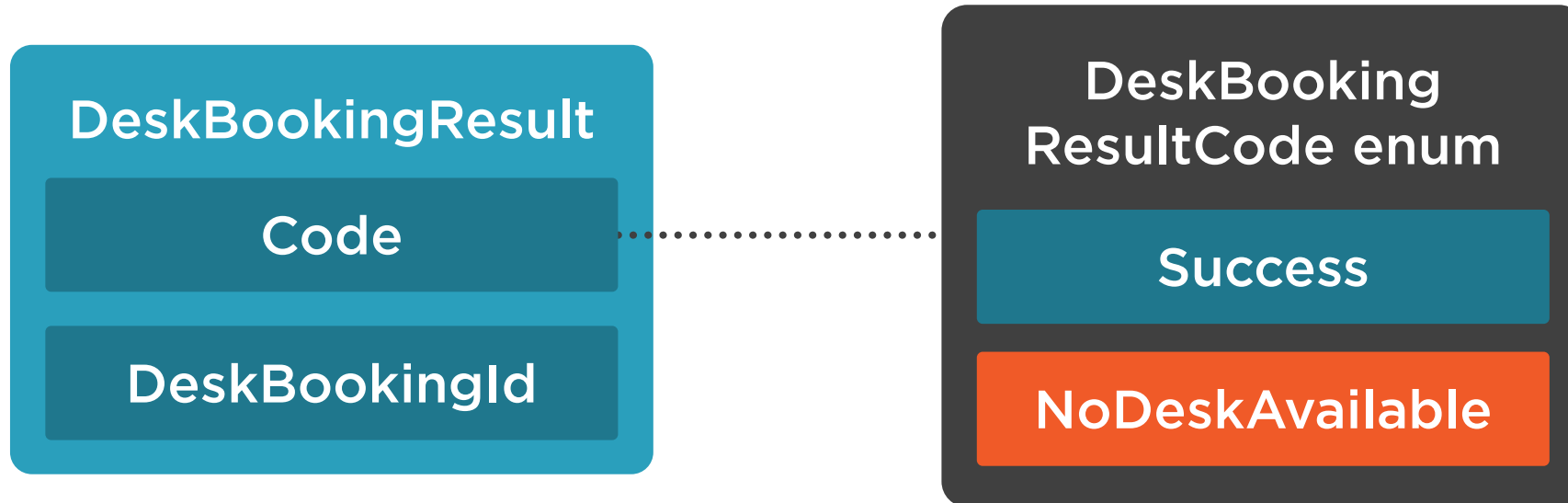
Set Desk Booking Id on the Result



Set Desk Booking Id on the Result



Set Desk Booking Id on the Result



Demo



Write a test
Implement it



Summary



DeskBookingRequestProcessor class

Use Test Driven Development

- Test and implement the requirements
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