Writing Less Test Code and Improving Test Maintenance

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Overview

- Maintainable "refactor-safe" test code
- Auto anonymous data in xUnit.net parameterized tests
- Auto mocking with Moq & Rhino Mocks
- Combining auto data and auto mocking

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Refactoring with Manual Test Data Creation

Change production code

Test code compilation errors

Manually fix errors

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Creating Refactor-Safe Test Code

Refactor manual tests to AutoFixture

Change production code

No fixes required in test code

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Parameterized xUnit.net Tests with Anonymous Data

Refactor individual tests to [InlineData]

[AutoData] for anonymous data

[InlineAutoData] for partial data

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Auto Mocking with Moq

Manual Moq Mock<IEmailGateway>()

AutoFixture EmailMessageBuffer error

AutoMoqCustomization()

fixture.Freeze()

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Auto Mocking with Rhino Mocks

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Combining Auto Mocking and Auto Data in xUnit.net

Creating an AutoMoqDataAttribute

Reduce arrange phase code

[Frozen] attribute on mock gateway

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Summary

Maintainable "refactor-safe" test code

xUnit.net [AutoData] & [InlineAutoData]

AutoMoqCustomization()

AutoRhinoMockCustomization()

[AutoMoqData] & [Frozen]

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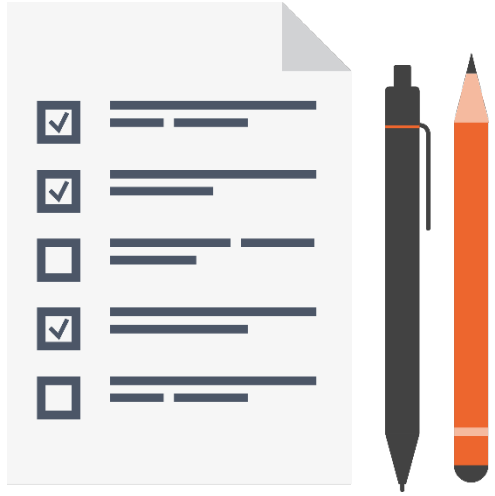
Resources and Further Learning



https://github.com/AutoFixture/AutoFixture

Mark Seemann:

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NUnit & xUnit.net Pluralsight courses

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