

# Teste Case

## 1. Teste de Unidade

### Testes Válidos:

```
DoacaoTests.cs X
Vaquinha.Unit.Tests > DomainTests > DoacaoTests.cs > {} Vaquinha.Unit.Tests.DomainTests > Vaquinha.Unit.Tests.DomainTests.DoacaoTests > Doacao_ValoresDoaca
19     _enderecoFixture = enderecoFixture;
20     _cartaoCreditoFixture = cartaoCreditoFixture;
21 }
22
23 [Fact]
24 [Trait("Doacao", "Doacao_CorretamentePreenchidos_DoacaoValida")]
0 references | Run Test | Debug Test
25 public void Doacao_CorretamentePreenchidos_DoacaoValida()
26 {
27     // Arrange
28     var doacao = _doacaoFixture.DoacaoValida();
29     doacao.AdicionarEnderecoCobranca(_enderecoFixture.EnderecoValido());
30     doacao.AdicionarFormaPagamento(_cartaoCreditoFixture.CartaoCreditoValido());
31
32     // Act
33     var valido = doacao.Valido();
34
35     // Assert
36     valido.Should().BeTrue(because: "os campos foram preenchidos corretamente");
37     doacao.ErrorMessages.Should().BeEmpty();
38 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL .NET Test Log

```
[xUnit.net 00:00:00.00] xUnit.net VSTest Adapter v2.4.1 (64-bit .NET Core 3.1.9)
[xUnit.net 00:00:01.83] Starting: Vaquinha.Unit.Tests
[xUnit.net 00:00:02.22] Finished: Vaquinha.Unit.Tests
----- Test Execution Summary -----

Vaquinha.Unit.Tests.DomainTests.DoacaoTests.Doacao_CorretamentePreenchidos_DoacaoValida:
  Outcome: Passed

Total tests: 1. Passed: 1. Failed: 0. Skipped: 0

```

```
DoacaoTests.cs X
Vaquinha.Unit.Tests > DomainTests > DoacaoTests.cs > {} Vaquinha.Unit.Tests.DomainTests > Vaquinha.Unit.Tests.DomainTests.DoacaoTests > Doacao_ValoresDoaca
39
40 [Fact]
41 [Trait("Doacao", "Doacao_DadosPessoaisInvalidos_DoacaoInvalida")]
0 references | Run Test | Debug Test
42 public void Doacao_DadosPessoaisInvalidos_DoacaoInvalida()
43 {
44     // Arrange
45     const bool EMAIL_INVALIDO = true;
46     var doacao = _doacaoFixture.DoacaoValida(EMAIL_INVALIDO);
47     doacao.AdicionarEnderecoCobranca(_enderecoFixture.EnderecoValido());
48     doacao.AdicionarFormaPagamento(_cartaoCreditoFixture.CartaoCreditoValido());
49
50     // Act
51     var valido = doacao.Valido();
52
53     // Assert
54     valido.Should().BeFalse(because: "o campo email está inválido");
55     doacao.ErrorMessages.Should().Contain("O campo Email é inválido.");
56     doacao.ErrorMessages.Should().HaveCount(1, because: "somente o campo email está inválido.");
57 }
58
59 [Fact]

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL .NET Test Log

```
[xUnit.net 00:00:00.00] xUnit.net VSTest Adapter v2.4.1 (64-bit .NET Core 3.1.9)
[xUnit.net 00:00:01.82] Starting: Vaquinha.Unit.Tests
[xUnit.net 00:00:02.24] Finished: Vaquinha.Unit.Tests
----- Test Execution Summary -----

Vaquinha.Unit.Tests.DomainTests.DoacaoTests.Doacao_DadosPessoaisInvalidos_DoacaoInvalida:
  Outcome: Passed

Total tests: 1. Passed: 1. Failed: 0. Skipped: 0

```

```
DoacaoTests.cs X
Vaquinha.Unit.Tests > DomainTests > DoacaoTests.cs > {} Vaquinha.Unit.Tests.DomainTests > Vaquinha.Unit.Tests.DomainTests.DoacaoTests > Doacao_ValoresDoacaoMenorIgualZero_DoacaoInvalida

57     }
58
59     [Theory]
60     [InlineData(0)]
61     [InlineData(-10)]
62     [InlineData(-5)]
63     [InlineData(-10.20)]
64     [InlineData(-55.4)]
65     [InlineData(-0.1)]
66     [Trait("Doacao", "Doacao_ValoresDoacaoMenorIgualZero_DoacaoInvalida")]
67     0 references | Run Test | Debug Test
68     public void Doacao_ValoresDoacaoMenorIgualZero_DoacaoInvalida(double valorDoacao)
69     {
70         // Arrange
71         var doacao = _doacaoFixture.DoacaoValida(false, valorDoacao);
72         doacao.AdicionarEnderecoCobranca(_enderecoFixture.EnderecoValido());
73         doacao.AdicionarFormaPagamento(_cartaoCreditoFixture.CartaoCreditoValido());
74
75         // Act
76         var valido = doacao.Valido();
77     }
78
79 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL .NET Test Log
80 Outcome: Passed
81
82 Vaquinha.Unit.Tests.DomainTests.DoacaoTests.Doacao_ValoresDoacaoMenorIgualZero_DoacaoInvalida:
83 Outcome: Passed
84
85 Vaquinha.Unit.Tests.DomainTests.DoacaoTests.Doacao_ValoresDoacaoMenorIgualZero_DoacaoInvalida:
86 Outcome: Passed
87
88 Total tests: 6. Passed: 6. Failed: 0. Skipped: 0
```

```
DoacaoControllerTests.cs X
tests > Vaquinha.Unit.Tests > ControllerTests > DoacaoControllerTests.cs > {} Vaquinha.Unit.Tests.ControllerTests > Vaquinha.Unit.Tests.ControllerTests.DoacaoControllerTests

58     _doacaoModelValida.FormaPagamento = cartaoCreditoFixture.CartaoCreditoModelValido();
59
60     _mapper.Setup(a => a.Map<DoacaoViewModel, Doacao>(_doacaoModelValida)).Returns(_doacaoValida);
61
62     _doacaoService = new DoacaoService(_mapper.Object, _doacaoRepository.Object, _domainNotificationService);
63 }
64
65 #region HTTPPOST
66
67 [Trait("DoacaoController", "DoacaoController_Adicionar_RetornaDadosComSucesso")]
68 [Fact]
69 0 references | Run Test | Debug Test
70 public void DoacaoController_Adicionar_RetornaDadosComSucesso()
71 {
72     // Arrange
73     _doacaoController = new DoacoesController(_doacaoService, _domainNotificationService, _toastNotification.Object);
74
75     // Act
76     var retorno = _doacaoController.Create(_doacaoModelValida);
77
78     _mapper.Verify(a => a.Map<DoacaoViewModel, Doacao>(_doacaoModelValida), Times.Once);
79 }
80
81 PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL .NET Test Log
82 [xUnit.net 00:00:00.00] xUnit.net VSTest Adapter v2.4.1 (64-bit .NET Core 3.1.0)
83 [xUnit.net 00:00:01.82] Starting: Vaquinha.Unit.Tests
84 [xUnit.net 00:00:02.47] Finished: Vaquinha.Unit.Tests
85 ----- Test Execution Summary -----
86
87 Vaquinha.Unit.Tests.ControllerTests.DoacaoControllerTests.DoacaoController_Adicionar_RetornaDadosComSucesso:
88 Outcome: Passed
89
90 Total tests: 1. Passed: 1. Failed: 0. Skipped: 0
```

```
DoacaoControllerTests.cs X
tests > Vaquinha.Unit.Tests > ControllerTests > DoacaoControllerTests.cs > {} Vaquinha.Unit.Tests.ControllerTests > Vaquinha.Unit.Tests.ControllerTests.DoacaoControllerTests
83      ((RedirectToActionResult)retorno).ControllerName.Should().Be("Home");
84  }
85
86  [Trait("DoacaoController", "DoacaoController_AdicionarDadosInvalidos_BadRequest")]
87  [Fact]
88  0 references | Run Test | Debug Test
89  public void DoacaoController_AdicionarDadosInvalidos_BadRequest()
90  {
91      // Arrange
92      var doacao = _doacaoFixture.DoacaoInvalida();
93      var doacaoModelInvalida = new DoacaoViewModel();
94      _mapper.Setup(a => a.Map<DoacaoViewModel, Doacao>(doacaoModelInvalida)).Returns(doacao);
95
96      _doacaoController = new DoacoesController(_doacaoService, _domainNotificationService, _toastNotification.Object);
97
98      // Act
99      var retorno = _doacaoController.Create(doacaoModelInvalida);
100
101      // Assert
102      retorno.Should().BeOfType<ViewResult>();
103
104  }
105
106  PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL .NET Test Log
107
108  [xUnit.net 00:00:00.00] xUnit.net VSTest Adapter v2.4.1 (64-bit .NET Core 3.1.0)
109  [xUnit.net 00:00:01.83] Starting: Vaquinha.Unit.Tests
110  [xUnit.net 00:00:02.48] Finished: Vaquinha.Unit.Tests
111  ----- Test Execution Summary -----
112
113  Vaquinha.Unit.Tests.ControllerTests.DoacaoControllerTests.DoacaoController_AdicionarDadosInvalidos_BadRequest:
114      Outcome: Passed
115
116  Total tests: 1. Passed: 1. Failed: 0. Skipped: 0
```

## Teste Inválido:

```
DoacaoTests.cs X
Vaquinha.Unit.Tests > DomainTests > DoacaoTests.cs > {} Vaquinha.Unit.Tests.DomainTests > Vaquinha.Unit.Tests.DomainTests.DoacaoTests > Doacao_ValoresDoacaoM
117  doacao.ErrorMessage.Should().Contain("valor mínimo de doação é de R$ 5,00");
118  doacao.ErrorMessage.Should().HaveCount(1, because: "somente o campo Valor está inválido.");
119  }
120
121  [Theory]
122  [InlineData(25000)]
123  [InlineData(5500.50)]
124  [InlineData(5000.1)]
125  [InlineData(4505)]
126  [InlineData(4500.1)]
127  [InlineData(4500)]
128  [Trait("Doacao", "Doacao_ValoresDoacaoMaiorLimite_DoacaoInvalida")]
129  0 references | Run Test | Debug Test
130  public void Doacao_ValoresDoacaoMaiorLimite_DoacaoInvalida(double valorDoacao)
131  {
132      // Arrange
133      const bool EXCEDER_MAX_VALOR_DOACAO = true;
134      var doacao = _doacaoFixture.DoacaoValida(false, valorDoacao);
135      doacao.AdicionarEnderecoCobranca(_enderecoFixture.EnderecoValido());
136      doacao.AdicionarFormaPagamento(_cartaoCreditoFixture.CartaoCreditoValido());
137
138      // Act
139
140  }
141
142  PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL .NET Test Log
143
144  c:\my_project_dir\Bootcamp DIO\Projeto 2\dotnet-vaquinha-tests\tests\Vaquinha.Unit.Tests\DomainTests\DoacaoTests.cs:line 103
145
146  Vaquinha.Unit.Tests.DomainTests.DoacaoTests.Doacao_ValoresDoacaoMaiorLimite_DoacaoInvalida:
147      Outcome: Passed
148
149  Vaquinha.Unit.Tests.DomainTests.DoacaoTests.Doacao_ValoresDoacaoMaiorLimite_DoacaoInvalida:
150      Outcome: Passed
151
152  Total tests: 6. Passed: 5. Failed: 1. Skipped: 0
```

## 2. Teste de Integração

### Teste Válido:

```
HomeTests.cs X
tests > Vaquinha.Integration.Tests > HomeTests.cs > ...
19
20 [Trait("HomeControllerIntegrationTests", "HomeController_CarregarPaginaInicial_TotalDoadoresETotalValorArrecadadoDeveSerZero")]
21 [Fact]
22 0 references | Run Test | Debug Test
23 public async Task HomeController_CarregarPaginaInicial_TotalDoadoresETotalValorArrecadadoDeveSerZero()
24 {
25     // Arrange & Act
26     var home = await _integrationTestsFixture.Client.GetAsync("Home");
27
28     // Assert
29     home.EnsureSuccessStatusCode();
30     var dadosHome = await home.Content.ReadAsStringAsync();
31
32     var totalArrecadado = 0.ToDinheiroBrString();
33     var metaCampanha = _integrationTestsFixture.ConfiguracaoGeralAplicacao.MetaCampanha.ToDinheiroBrString();
34
35     // Dados totais da doação
36     dadosHome.Should().Contain(expected: "Arrecadamos quanto?");
37     dadosHome.Should().Contain(expected: totalArrecadado);
38     dadosHome.Should().Contain(expected: "Quanto falta arrecadar?");
39
40     .NET Test Log
41 [xUnit.net 00:00:00.00] xUnit.net VSTest Adapter v2.4.1 (64-bit .NET Core 3.1.0)
42 [xUnit.net 00:00:01.90] Starting: Vaquinha.Integration.Tests
43 [xUnit.net 00:00:04.01] Finished: Vaquinha.Integration.Tests
44 ----- Test Execution Summary -----
45
46 Vaquinha.Integration.Tests.HomeTests.HomeController_CarregarPaginaInicial_TotalDoadoresETotalValorArrecadadoDeveSerZero:
47 Outcome: Passed
48
49 Total tests: 1. Passed: 1. Failed: 0. Skipped: 0
```

## 3. Teste Automatizado

```
DoacaoTests.cs X
tests > Vaquinha.Automated.UI.Tests > DoacaoTests.cs > { } Vaquinha.AutomatedUITests > Vaquinha.AutomatedUITests
28 {
29     _driverFactory.Close();
30 }
31
32 [Fact]
33 0 references | Run Test | Debug Test
34 public void DoacaoUI_AcessoTelaHome()
35 {
36     // Arrange
37     _driverFactory.NavigateToUrl("https://vaquinha.azurewebsites.net/");
38     _driver = _driverFactory.GetWebDriver();
39
40     // Act
41     IWebElement webElement = null;
42     webElement = _driver.FindElement(By.ClassName("vaquinha-logo"));
43
44     // Assert
45     webElement.Displayed.Should().BeTrue(because: "logo exibido");
46 }
47
48 [Fact]
49 0 references | Run Test | Debug Test
```



doadores doar

## Vaquinha online

Doar agora

Arrecadamos quanto?	Quanto falta arrecadar?	Quantidade de Doadores	Tempo Restante
R\$0,00	R\$30.000,00	0	-118 dias - -2 horas - -10 minutos

### Para onde vai minha doação?

<	Amigos do bem	>
	Araraquara - SP	