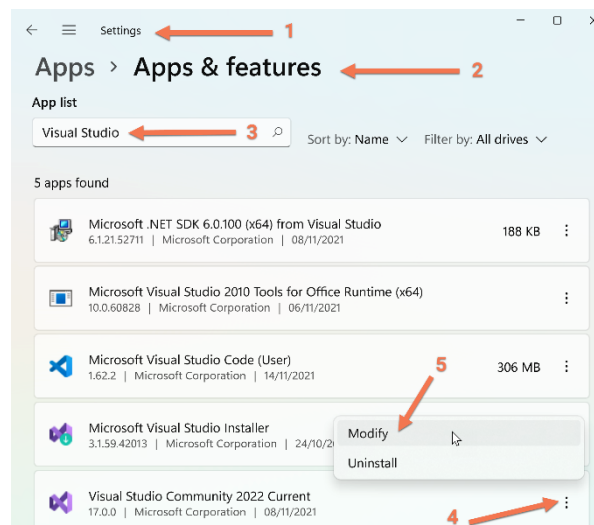
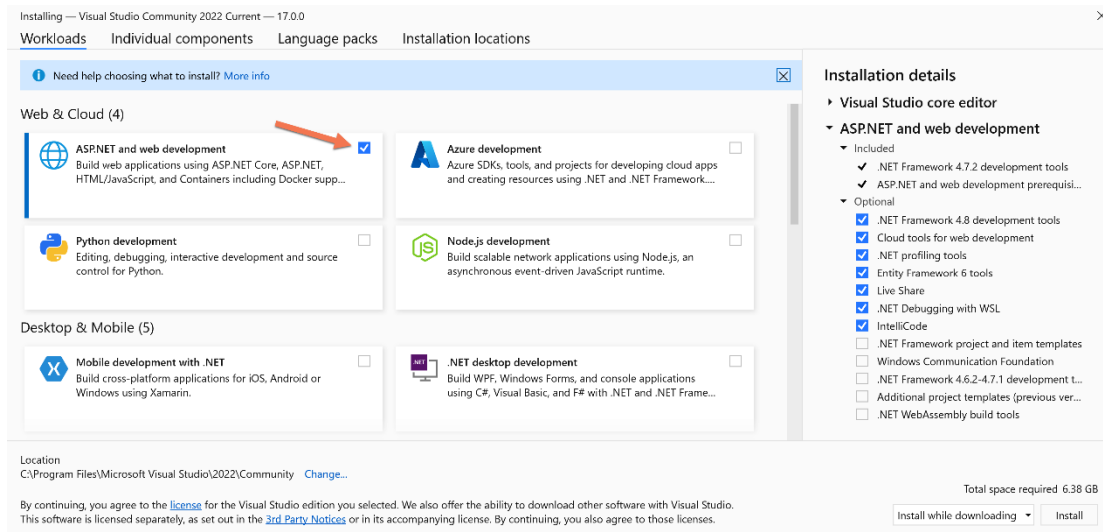


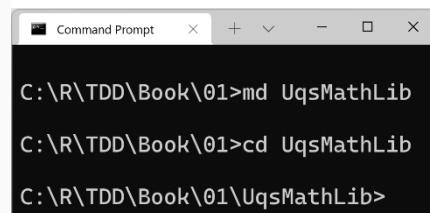
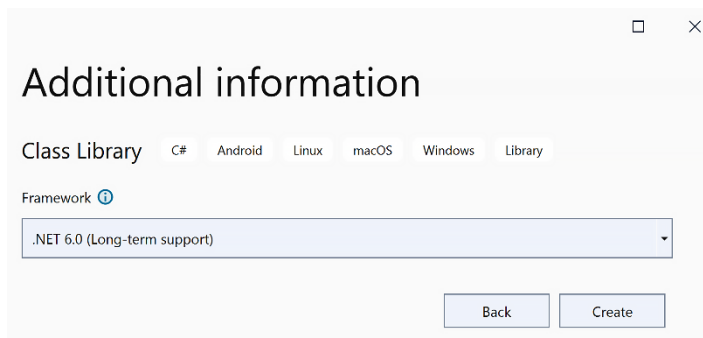
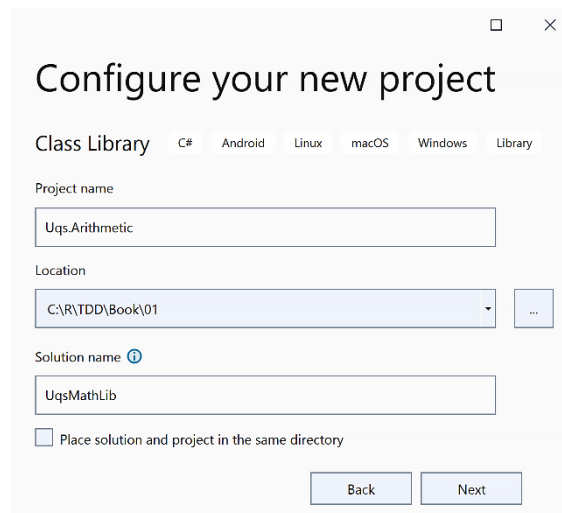
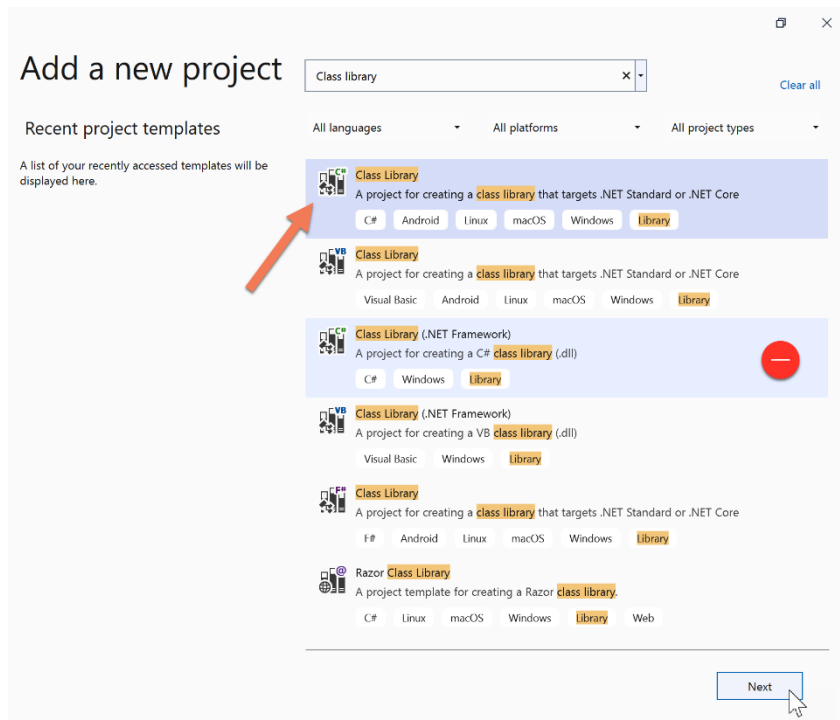
Chapter 1: Writing Your First TDD Implementation

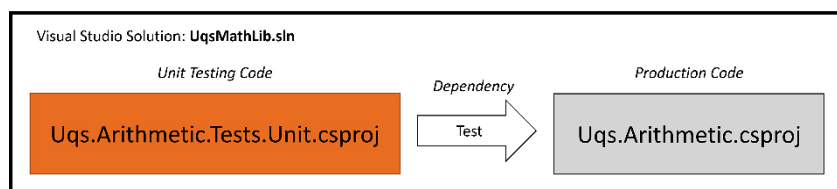
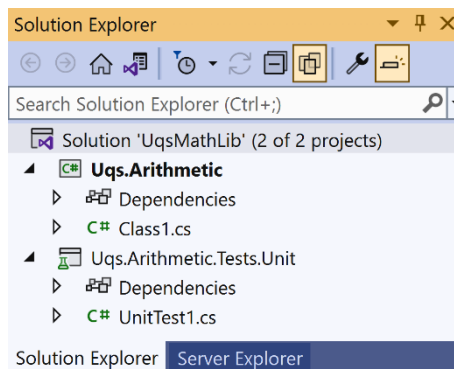
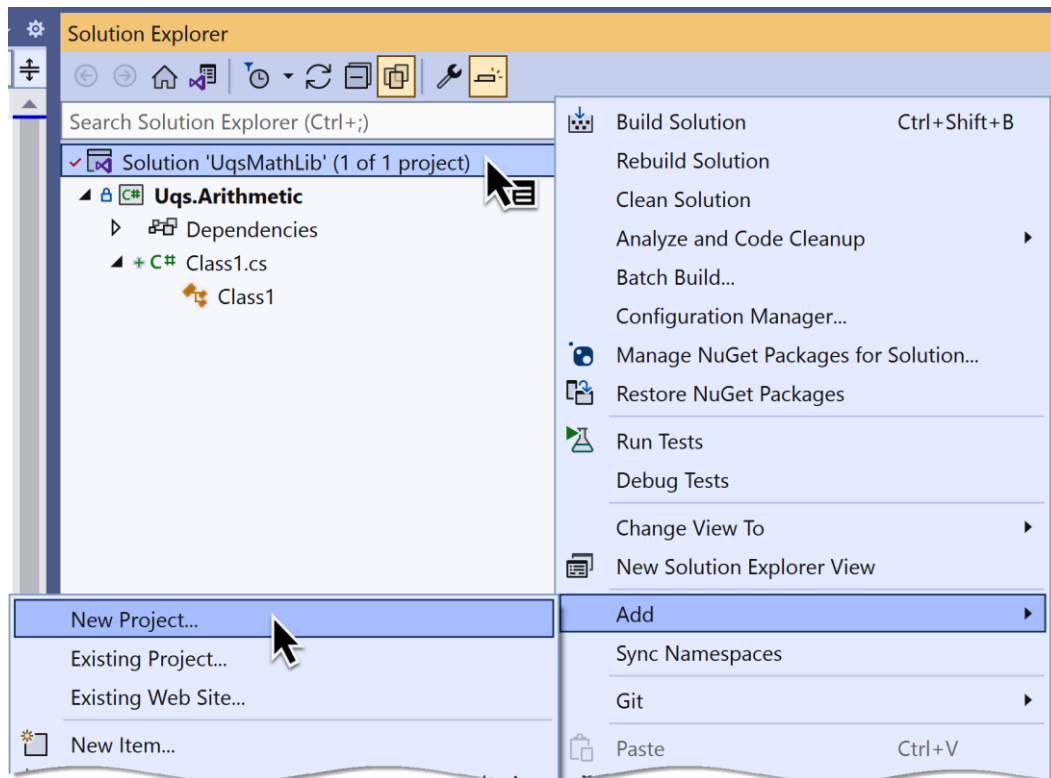


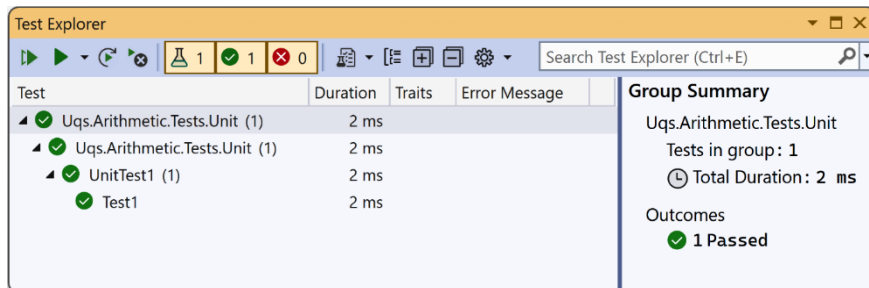
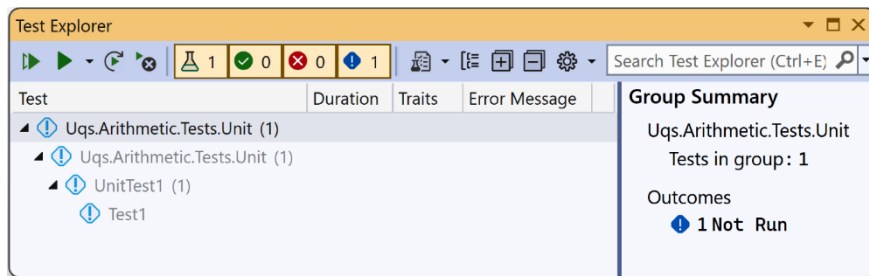
C# developers active in unit testing and/or TDD. What IDE do you use for day-to-day development?

Visual Studio	40%
Visual Studio + ReSharper	18%
Visual Studio Code	18%
Rider	24%

45 votes • Poll closed







```

C:\R\TDD\Book\01\UqsMathLib>dotnet test
Determining projects to restore...
All projects are up-to-date for restore.
Uqs.Arithmetic -> C:\R\TDD\Book\01\UqsMathLib\Uqs.Arithmetic\bin\Debug\net6.0\Uqs.Arithmetic.dll
Uqs.Arithmetic.Tests.Unit -> C:\R\TDD\Book\01\UqsMathLib\Uqs.Arithmetic.Tests.Unit\bin\Debug\net6.0\
Uqs.Arithmetic.Tests.Unit.dll
Test run for C:\R\TDD\Book\01\UqsMathLib\Uqs.Arithmetic.Tests.Unit\bin\Debug\net6.0\Uqs.Arithmetic.Tes
ts.Unit.dll (.NETCoreApp,Version=v6.0)
Microsoft (R) Test Execution Command Line Tool Version 17.0.0
Copyright (c) Microsoft Corporation. All rights reserved.

Starting test execution, please wait...
A total of 1 test files matched the specified pattern.

Passed! - Failed:    0, Passed:    1, Skipped:    0, Total:    1, Duration: < 1 ms - Uqs.Arithmet
ic.Tests.Unit.dll (net6.0)

C:\R\TDD\Book\01\UqsMathLib>

```

Unit Tests

```
public class ClassNameTests
{
    [Fact]
    public void MethodName_Condition1_Expectation1()
    {
        // ...
        var value = className.MethodName(...);
        // ...
    }

    [Fact]
    public void MethodName_Condition2_Expectation2()
    {
        // ...
        var value = className.MethodName(...);
        // ...
    }

    [Fact]
    public void MethodName_ConditionN_ExpectationN()
    {
        // ...
        var value = className.MethodName(...);
        // ...
    }
}
```

Call

Call

Call

```
public class ClassName
{
    // ...
    private int _someField;

    public Type MethodName(...)
    {
        // potential call to DB
        // potential call to Network
        // potential business logic
        _someField = 1;
        OtherMethod();
    }

    private void OtherMethod (...)
    {
        // do something
    }

    // ...
}
```

SUT entry point

SUT

0 | ✓ Uqs.Arithmetic.Tests.Unit.DivisionTests.Divide_DivisibleIntegers_WholeNumber
⌚ Duration: < 1 ms
Run | Debug | Show in Test Explorer

✓ | 0 references
public void Divide_DivisibleIntegers_WholeNumber()
{

✓ Uqs.Arithmetic.Tests.Unit.DivisionTests.Divide_ZeroDivisor_DivideByZeroException
⌚ Duration: 2 ms
Run | Debug | Show in Test Explorer

✓ | 0 references
public void Divide_ZeroDivisor_DivideByZeroException()
{

3 references | ✓ 3/3 passing
public static decimal Divide(int dividend, int divisor)
{
 decimal quotient = (decimal)dividend / divisor;
 return quotient;
}

Exception User-Unhandled

System.DivideByZeroException: 'Attempted to divide by zero.'

[View Details](#) | [Copy Details](#) | [Start Live Share session...](#)

▶ Exception Settings

[Theory]

	Parameter 1	Parameter 2	Parameter 3	
[InlineData(int.MaxValue, int.MinValue, -0.999999999534)]	int.MaxValue	int.MinValue	-0.999999999534	Test 1
[InlineData(-int.MaxValue, int.MinValue, 0.999999999534)]	-int.MaxValue	int.MinValue	0.999999999534	Test 2
[InlineData(int.MinValue, int.MaxValue, -1.000000000466)]	int.MinValue	int.MaxValue	-1.000000000466	Test 3
[InlineData(int.MinValue, -int.MaxValue, 1.000000000466)]	int.MinValue	-int.MaxValue	1.000000000466	Test 4

public void DivideExtremeInputCorrectCalculation(
int dividend, int divisor, decimal expectedQuotient)

Test Explorer			Search Test Explorer (Ctrl+E)
Test	Duration	Traits	Group Summary
Uqs.Arithmetic.Tests.Unit (7)	18 sec		Uqs.Arithmetic.Tests.Unit
Uqs.Arithmetic.Tests.Unit (7)	18 sec		Tests in group: 7
DivisionTests (7)	18 sec		Total Duration: 18 sec
Divide_DivisibleIntegers_WholeNumber	< 1 ms		Outcomes
Divide_ExtremeInput_CorrectCalculation (4)	7 ms		7 Passed
Divide_ExtremeInput_CorrectCalculation(dividend: 2147483647, divisor: -2147483648, expectedQuotient: -0.999999999534)	7 ms		
Divide_ExtremeInput_CorrectCalculation(dividend: -2147483647, divisor: -2147483648, expectedQuotient: 0.999999999534)	< 1 ms		
Divide_ExtremeInput_CorrectCalculation(dividend: -2147483648, divisor: 2147483647, expectedQuotient: -1.000000000466)	< 1 ms		
Divide_ExtremeInput_CorrectCalculation(dividend: -2147483648, divisor: -2147483647, expectedQuotient: 1.000000000466)	< 1 ms		
Divide_IndivisibleIntegers_DecimalNumber	5 ms		
Divide_ZeroDivisor_DivideByZeroException	17.9 sec		

Chapter 2: Understanding Dependency Injection by Example

```
Command Prompt
C:\R\TDD\Book\ch02>md UqsWeather

C:\R\TDD\Book\ch02>cd UqsWeather

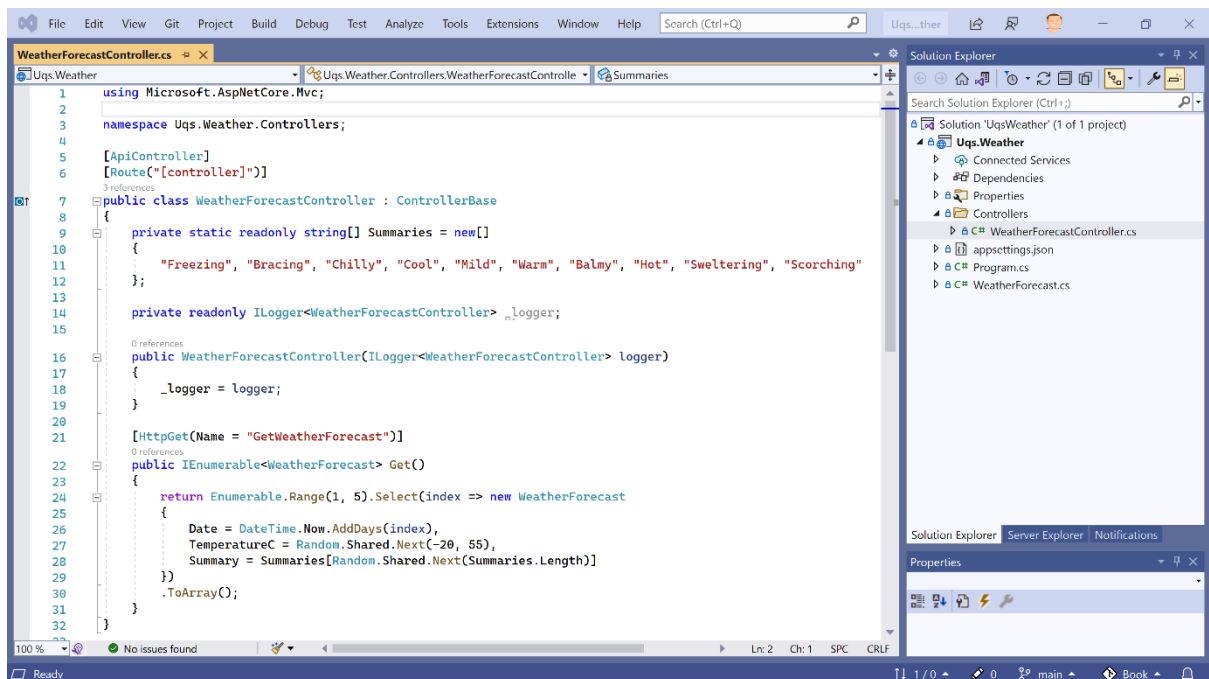
C:\R\TDD\Book\ch02\UqsWeather>dotnet new sln
The template "Solution File" was created successfully.

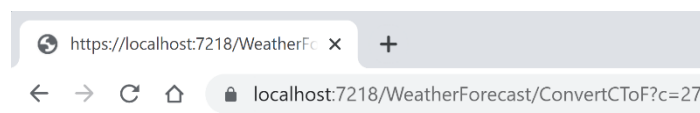
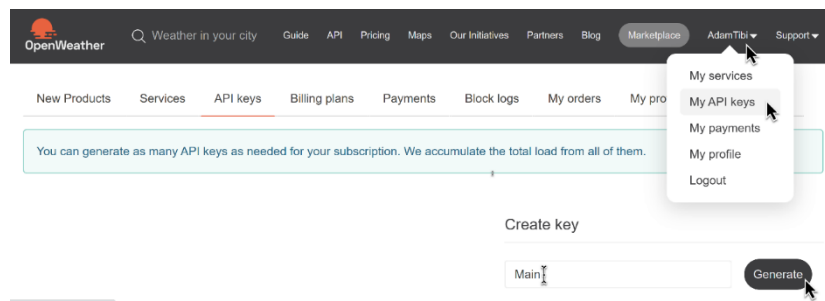
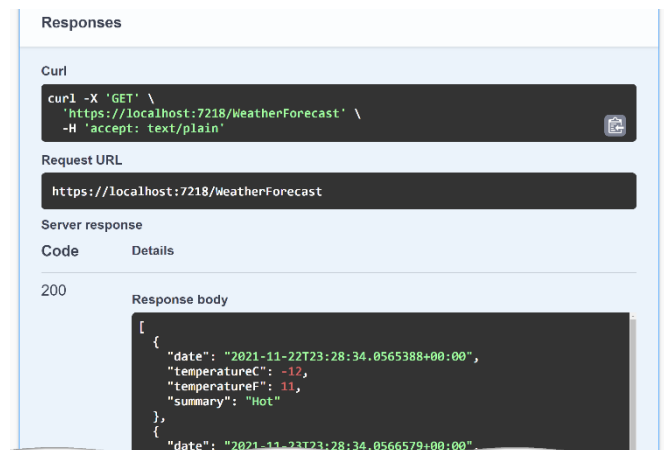
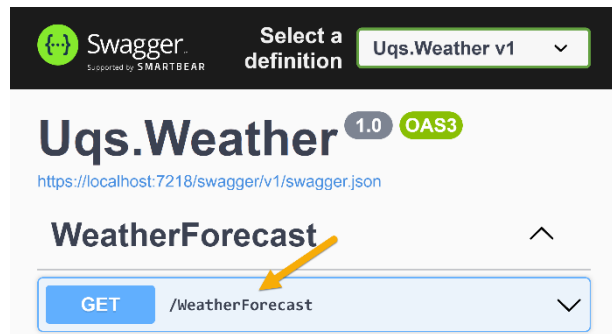
C:\R\TDD\Book\ch02\UqsWeather>dotnet new webapi -o Uqs.Weather -f net6.0
The template "ASP.NET Core Web API" was created successfully.

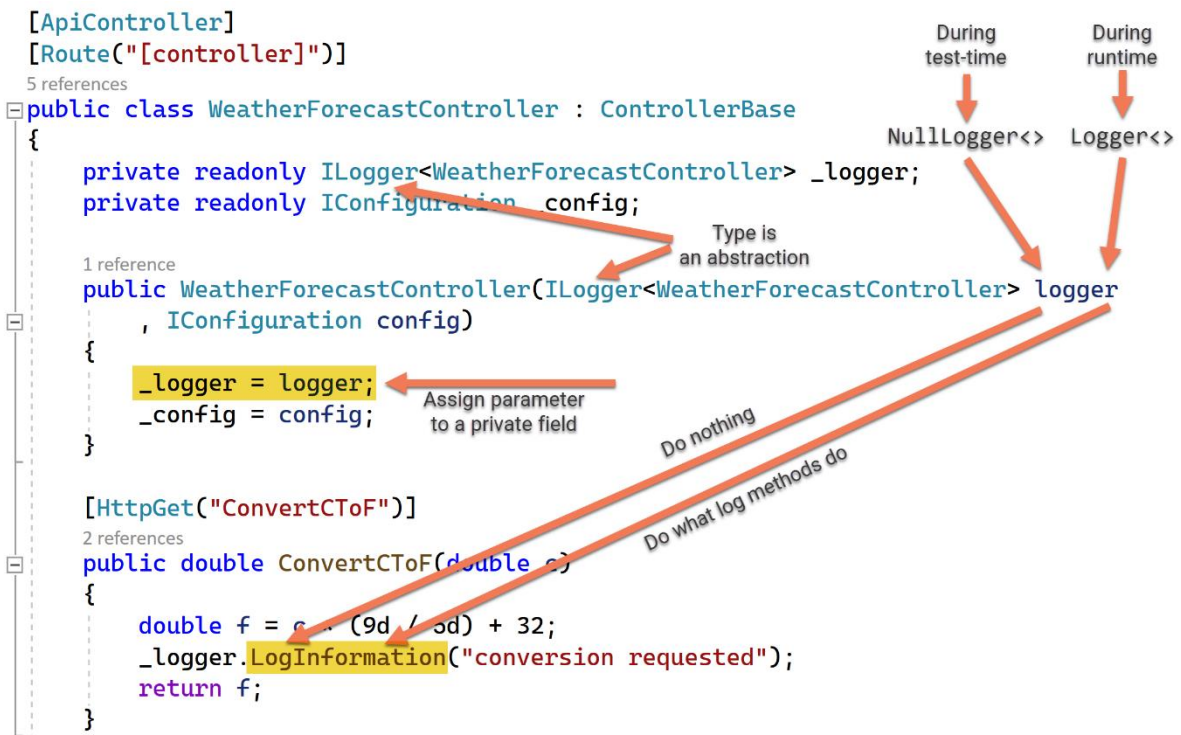
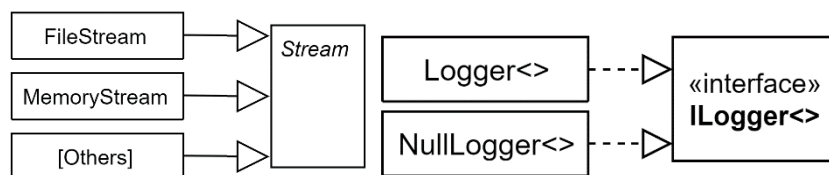
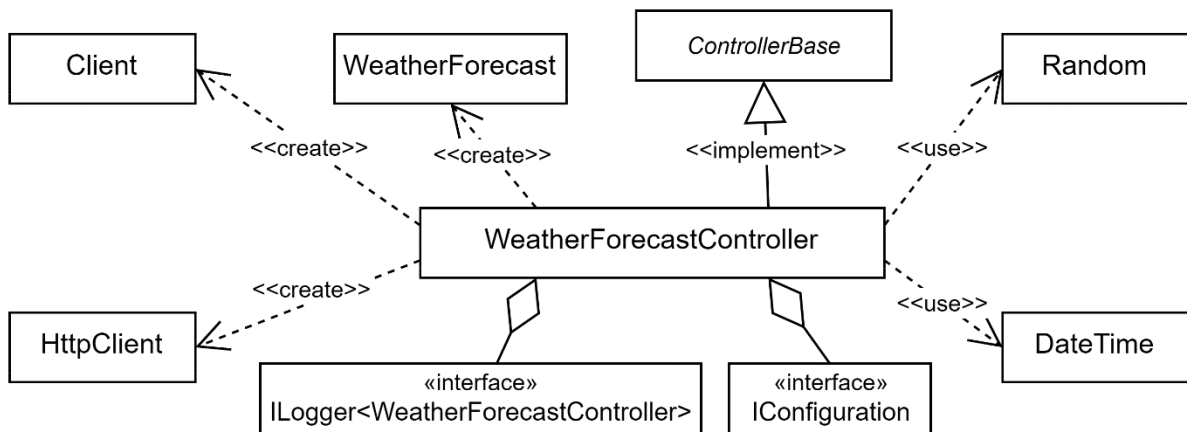
Processing post-creation actions...
Running 'dotnet restore' on C:\R\TDD\Book\ch02\UqsWeather\Uqs.Weather\Uqs.Weather.csproj...
  Determining projects to restore...
  Restored C:\R\TDD\Book\ch02\UqsWeather\Uqs.Weather\Uqs.Weather.csproj (in 322 ms).
Restore succeeded.

C:\R\TDD\Book\ch02\UqsWeather>dotnet sln add Uqs.Weather
Project 'Uqs.Weather\Uqs.Weather.csproj' added to the solution.

C:\R\TDD\Book\ch02\UqsWeather>
```







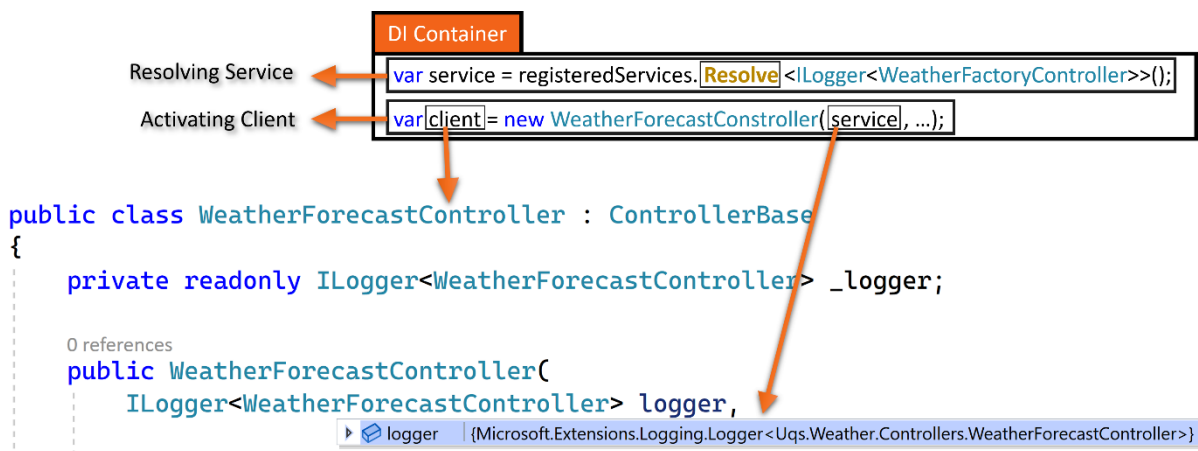
Immediate Window

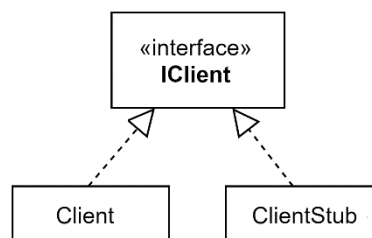
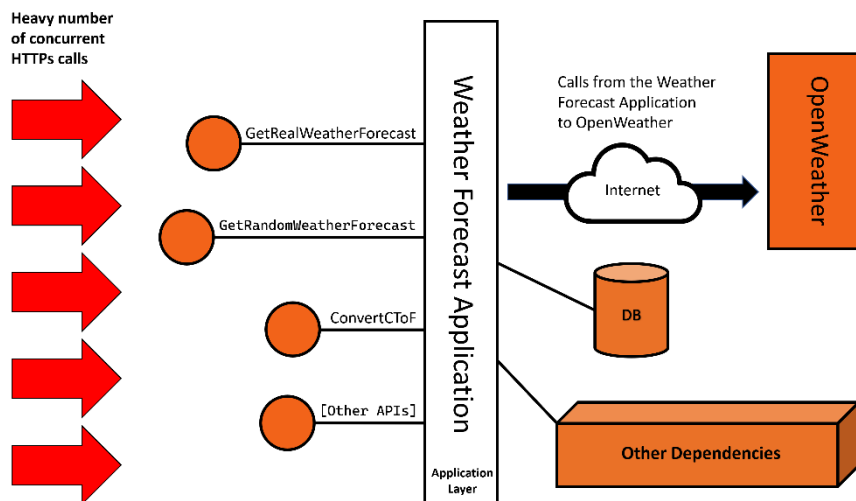
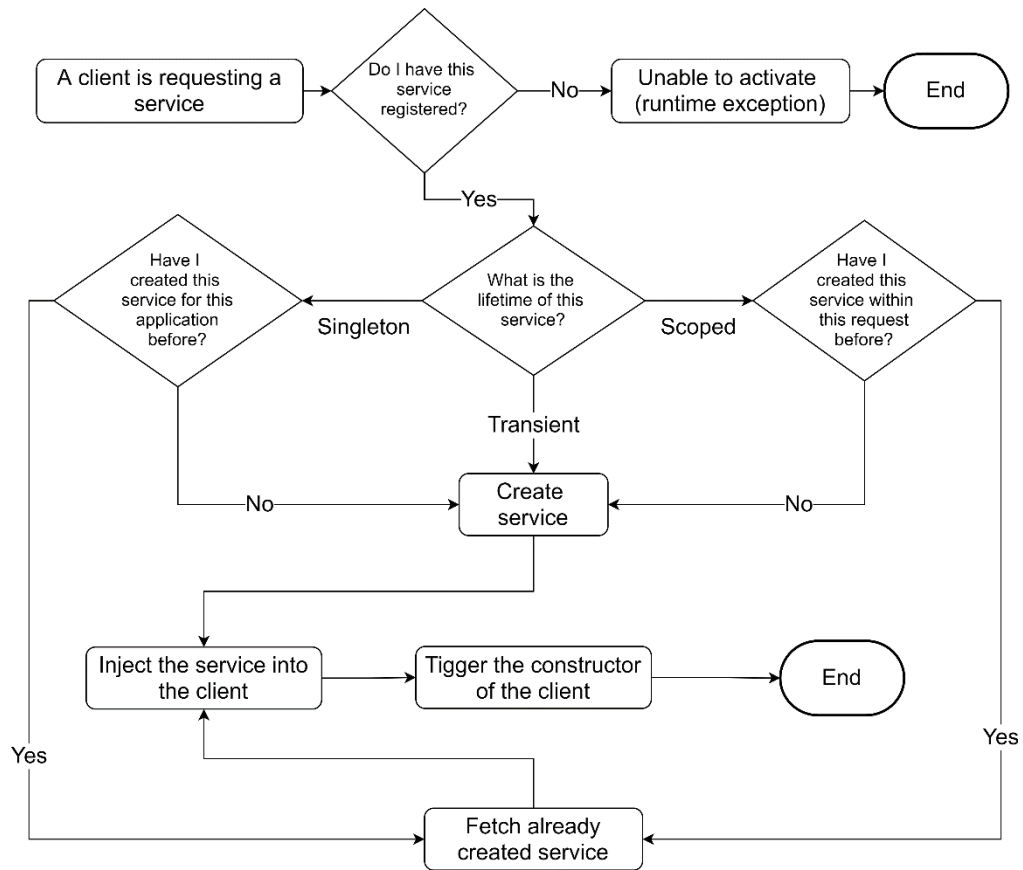
logServices

{Microsoft.Extensions.DependencyInjection.ServiceDescriptor[10]}

```
[0]: Lifetime = Singleton, ServiceType = {Name = "ILoggerFactory" FullName = "Microsoft.Extensions.Logging.ILoggerFactory"}
[1]: Lifetime = Singleton, ServiceType = {Name = "ILogger`1" FullName = "Microsoft.Extensions.Logging.ILogger`1"}
[2]: Lifetime = Singleton, ServiceType = {Name = "ILoggerProviderConfigurationFactory" FullName = "Microsoft.Extensions.Logging.ILoggerProviderConfigurationFactory"}
[3]: Lifetime = Singleton, ServiceType = {Name = "ILoggerProviderConfiguration`1" FullName = "Microsoft.Extensions.Logging.ILoggerProviderConfiguration`1"}
[4]: Lifetime = Singleton, ServiceType = {Name = "LoggingConfiguration" FullName = "Microsoft.Extensions.Logging.LoggingConfiguration"}
[5]: Lifetime = Singleton, ServiceType = {Name = "ILoggerProvider" FullName = "Microsoft.Extensions.Logging.ILoggerProvider"}
[6]: Lifetime = Singleton, ServiceType = {Name = "ILoggerProvider" FullName = "Microsoft.Extensions.Logging.ILoggerProvider"}
[7]: Lifetime = Singleton, ServiceType = {Name = "LoggingEventSource" FullName = "Microsoft.Extensions.Logging.LoggingEventSource"}
[8]: Lifetime = Singleton, ServiceType = {Name = "ILoggerProvider" FullName = "Microsoft.Extensions.Logging.ILoggerProvider"}
[9]: Lifetime = Singleton, ServiceType = {Name = "ILoggerProvider" FullName = "Microsoft.Extensions.Logging.ILoggerProvider"}
```

Call Stack Breakpoints Command Window Immediate Window Output





Chapter 3: Getting Started with Unit Testing

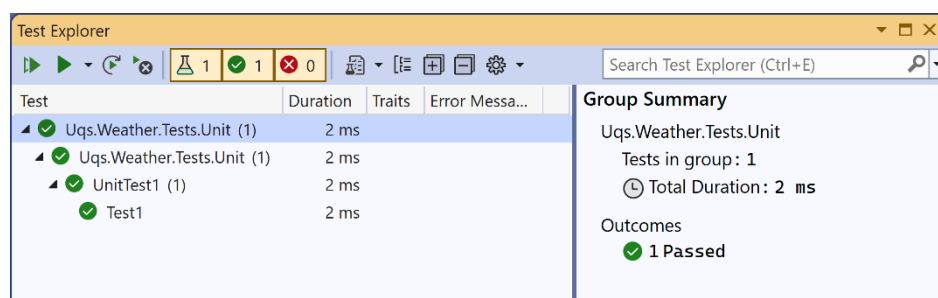
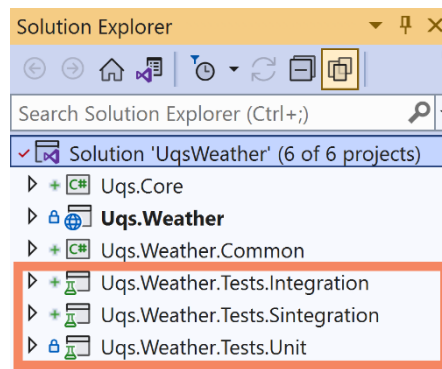
```
Command Prompt
C:\R\TDD\Book\ch03>dotnet new xunit -o Uqs.Weather.Tests.Unit -f net6.0
The template "xUnit Test Project" was created successfully.

Processing post-creation actions...
Running 'dotnet restore' on C:\R\TDD\Book\ch03\Uqs.Weather.Tests.Unit\Uqs.Weather.Tests.Unit.csproj...
  Determining projects to restore...
  Restored C:\R\TDD\Book\ch03\Uqs.Weather.Tests.Unit\Uqs.Weather.Tests.Unit.csproj (in 799 ms).
Restore succeeded.

C:\R\TDD\Book\ch03>dotnet sln add Uqs.Weather.Tests.Unit
Project 'Uqs.Weather.Tests.Unit\Uqs.Weather.Tests.Unit.csproj' added to the solution.

C:\R\TDD\Book\ch03>dotnet add Uqs.Weather.Tests.Unit reference Uqs.Weather
Reference '..\Uqs.Weather\Uqs.Weather.csproj' added to the project.

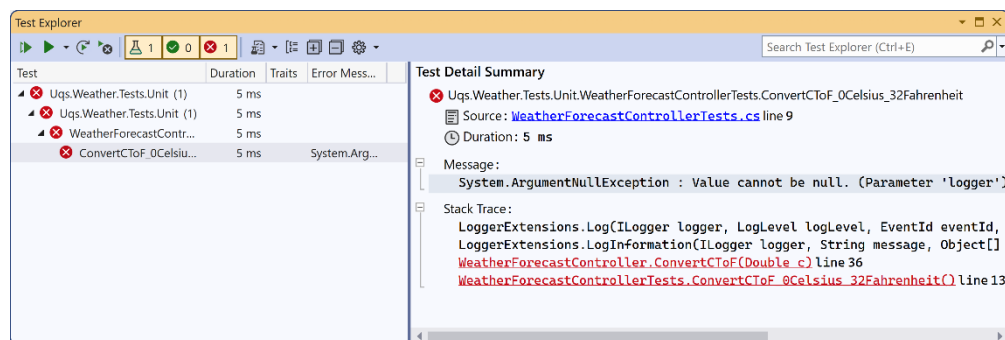
C:\R\TDD\Book\ch03>
```



```
Command Prompt
C:\R\TDD\Book\ch03>dotnet test
Determining projects to restore...
All projects are up-to-date for restore.
Uqs.Weather -> C:\R\TDD\Book\ch03\Uqs.Weather\bin\Debug\net6.0\Uqs.Weather.dll
Uqs.Weather.Tests.Unit -> C:\R\TDD\Book\ch03\Uqs.Weather.Tests.Unit\bin\Debug\net6.0\Uqs.Weather.Tests.Unit.dll
Test run for C:\R\TDD\Book\ch03\Uqs.Weather.Tests.Unit\bin\Debug\net6.0\Uqs.Weather.Tests.Unit.dll (.NETCoreApp,Version=v6.0)
Microsoft (R) Test Execution Command Line Tool Version 17.0.0
Copyright (c) Microsoft Corporation. All rights reserved.

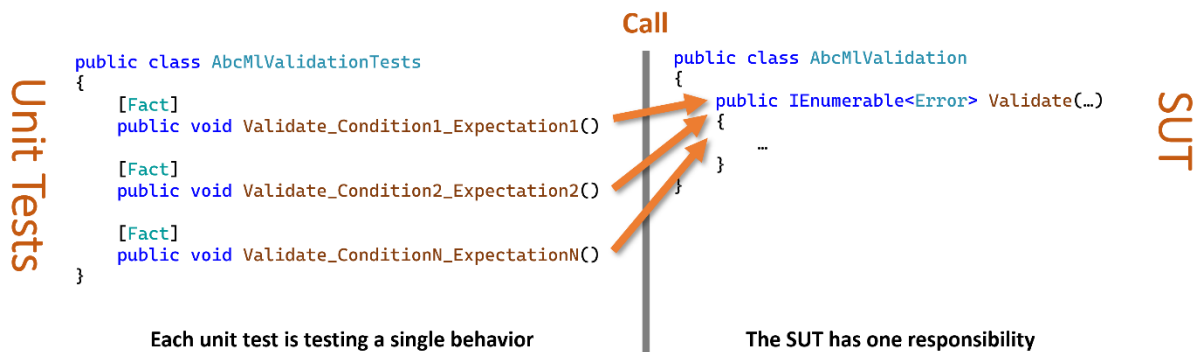
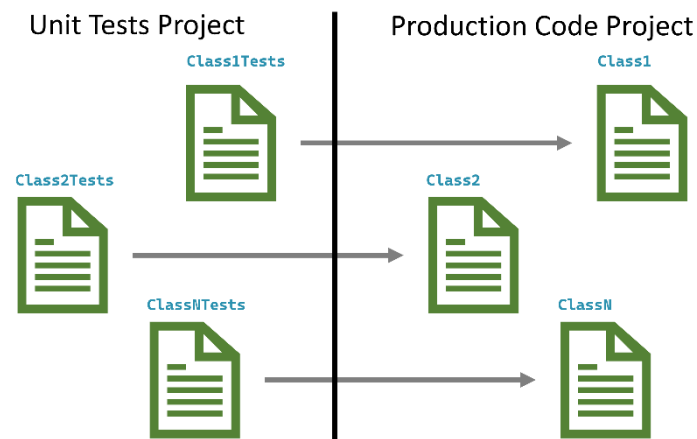
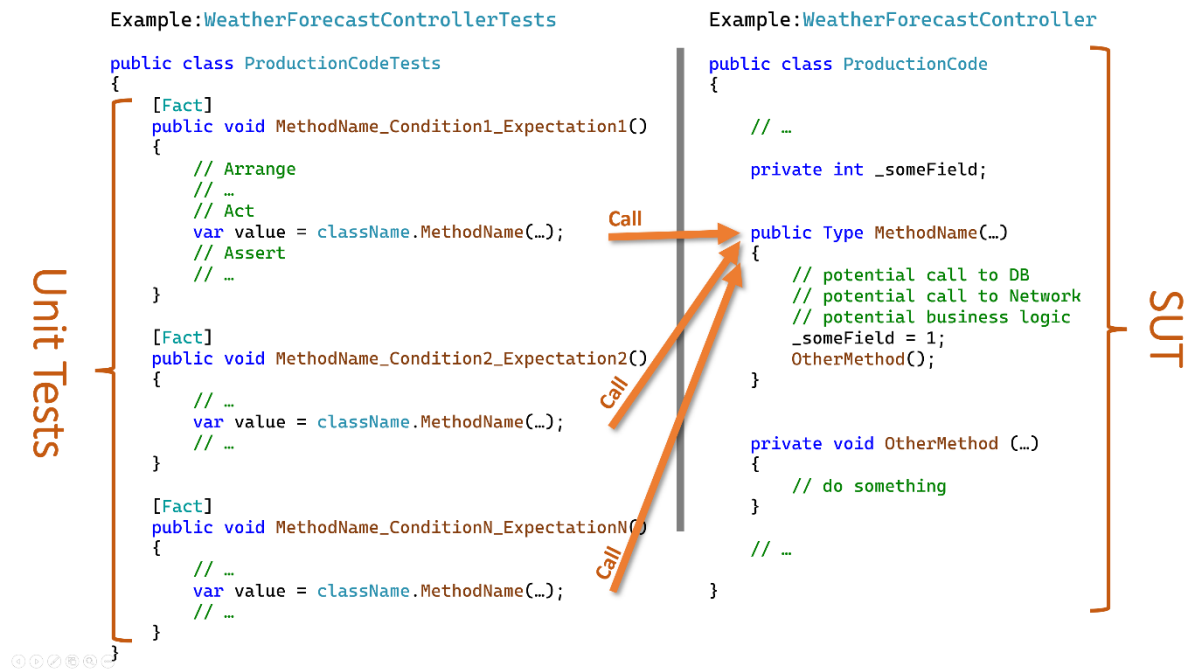
Starting test execution, please wait...
A total of 1 test files matched the specified pattern.

Passed! - Failed:    0, Passed:    1, Skipped:    0, Total:    1, Duration: < 1 ms - Uqs.Weather.Tests.Unit.dll (net6.0)
C:\R\TDD\Book\ch03>
```

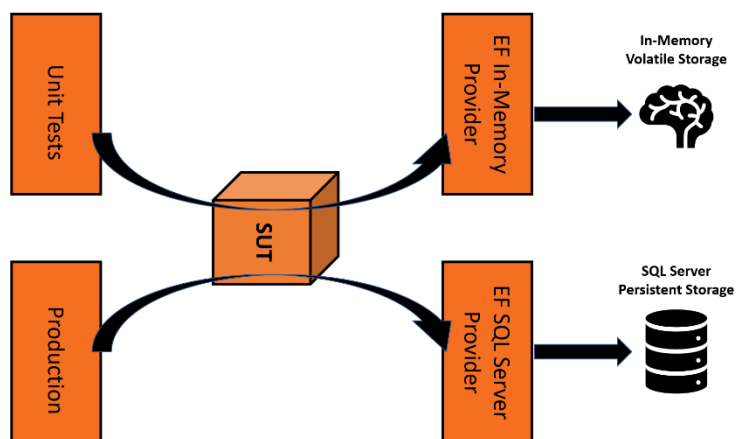
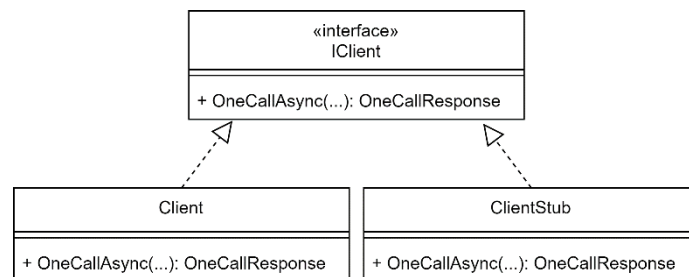
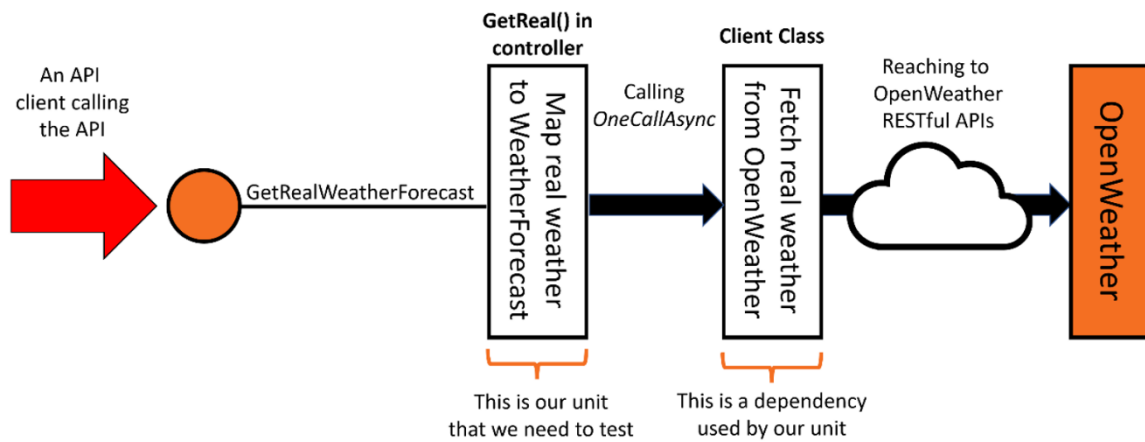


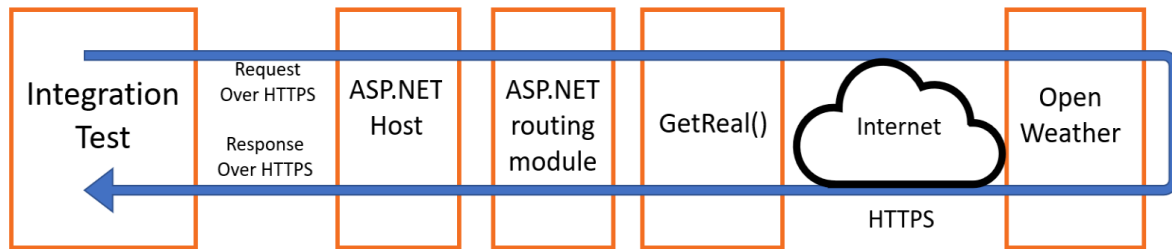
```
1 reference | 0/1 passing
public WeatherForecastController(ILogger<WeatherForecastController> logger,
    IClient client, INowWrapper nowWrapper, IRandomWrapper randomWrapper)
{
    _logger = logger;
    _client = client;
    _nowWrapper = nowWrapper;
    _randomWrapper = randomWrapper;
}

[HttpGet("ConvertCToF")]
1 reference | 0/1 passing
public double ConvertCToF(double c)
{
    double f = c * (9d / 5d) + 32;
    _logger.LogInformation("conversion requested");
    return f;
}
```



Chapter 4: Real Unit Testing with Test Doubles





All test double dependencies

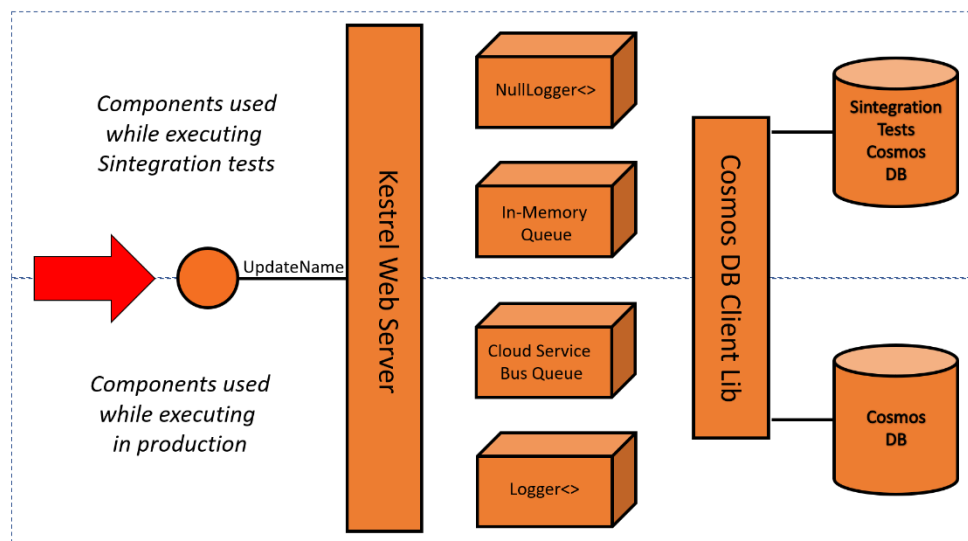
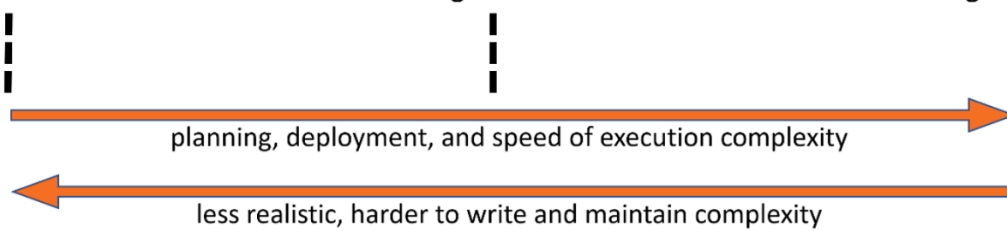
Few test doubles and few real dependencies

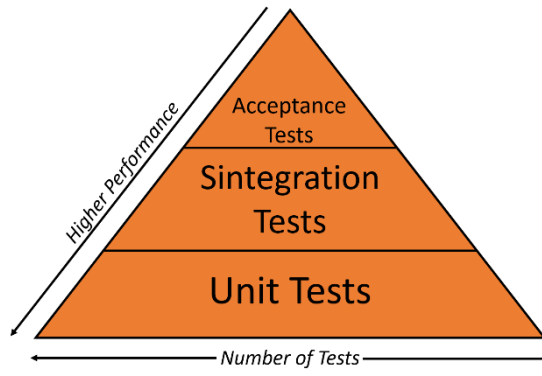
No test double dependencies

Unit Test

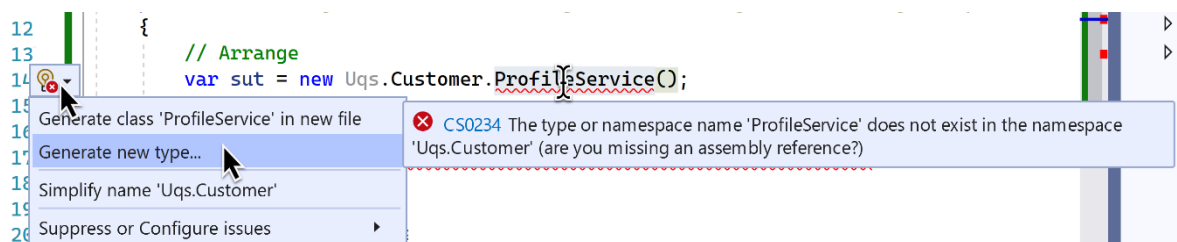
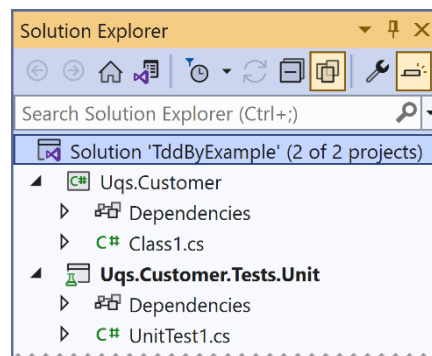
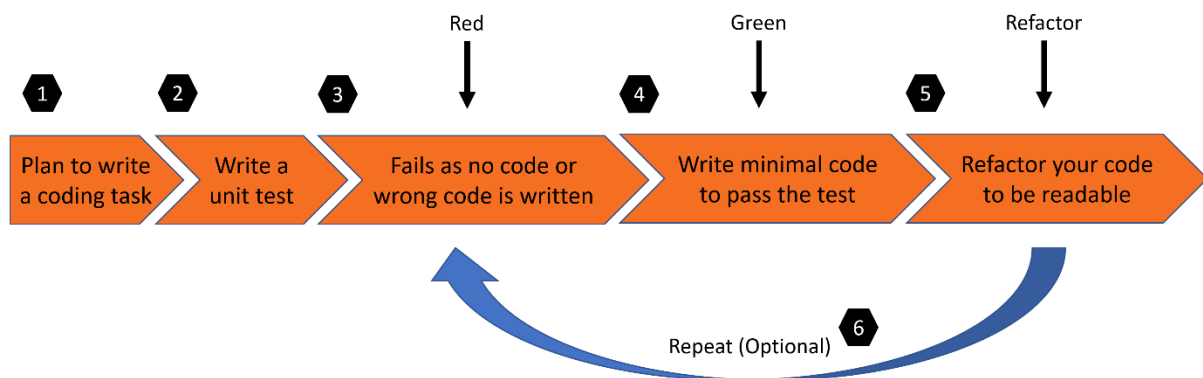
Sintegration Test

Integration Test





Chapter 5: Test-Driven Development Explained



Generate Type

Type Details:

Access:
Kind:
Name:

public
class
ProfileService

Location:

Project:

Uqs.Customer

File Name:

☒ Create new file
☐ Add to existing file

ProfileService.cs

OK
Cancel

13
14
15
16
17
18
19
20
21
22
23

// Arrange
var sut = new Uqs.Customer.ProfileService();

// Act
var e = Record.Exception(() => sut.ChangeUsername(username));

Generate method 'ChangeUsername'
Use explicit type instead of 'var'
Use block body for lambda expressions
Suppress or Configure issues

CS1061 'ProfileService' does not contain a definition for 'ChangeUsername' and no accessible extension method 'ChangeUsernam...
Lines 4 to 5
{
public void ChangeUsername(string username)
{
throw new NotImplementedException();
}
}
Preview changes

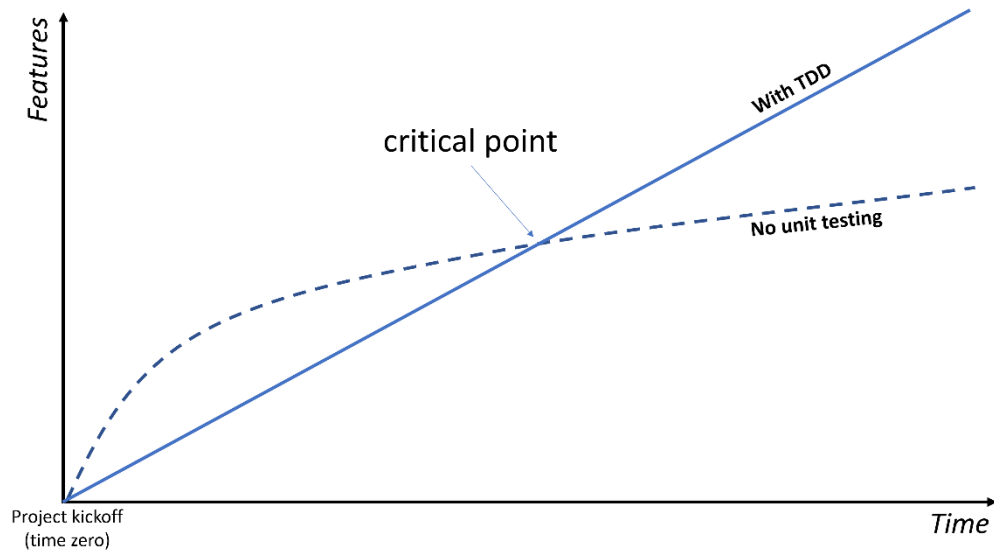
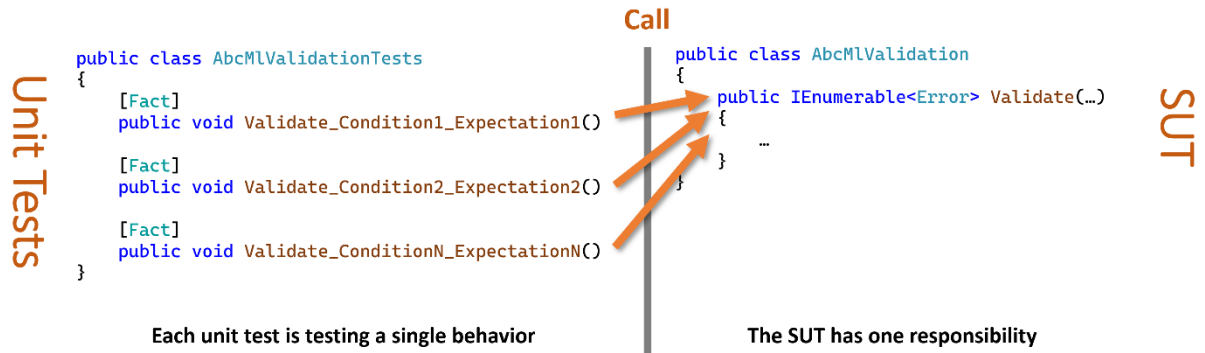
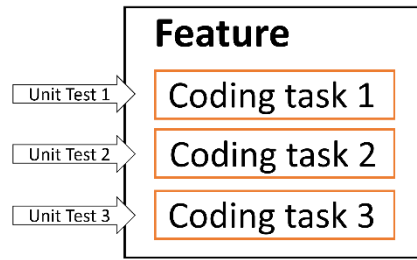
Test Explorer

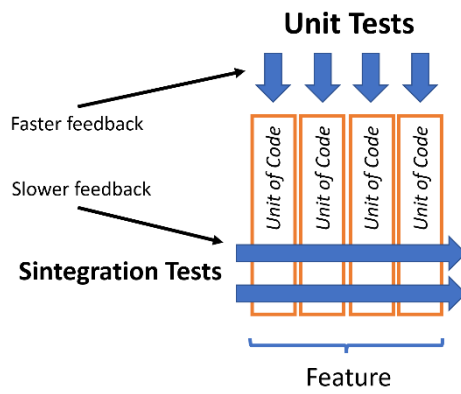
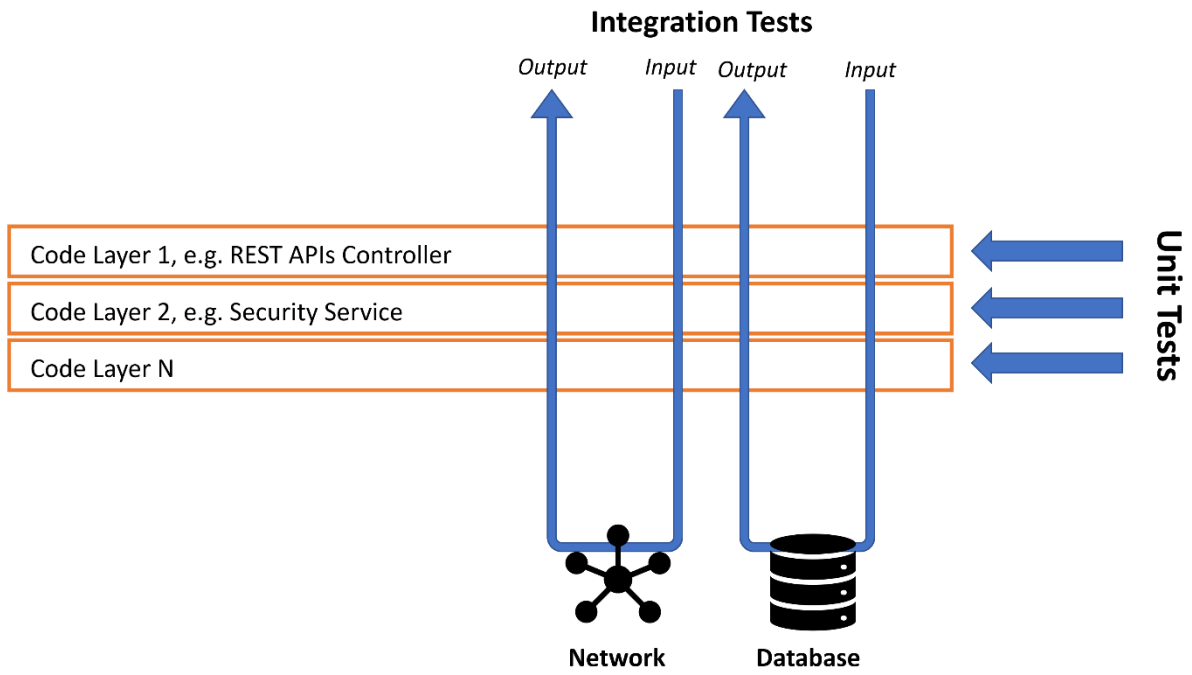
11
7
4

Test

Uqs.Customer.Tests.Unit (11)
Uqs.Customer.Tests.Unit (11)
ProfileServiceTests (11)
ChangeUsername_InvalidCharValidation_ArgumentOutOfRangeException (5)
ChangeUsername_InvalidCharValidation_ArgumentOutOfRangeException(username: "!The_Start", isValid: False)
ChangeUsername_InvalidCharValidation_ArgumentOutOfRangeException(username: "InThe@Middle", isValid: False)
ChangeUsername_InvalidCharValidation_ArgumentOutOfRangeException(username: "Letter_123", isValid: True)
ChangeUsername_InvalidCharValidation_ArgumentOutOfRangeException(username: "Space 123", isValid: False)
ChangeUsername_InvalidCharValidation_ArgumentOutOfRangeException(username: "WithDollar\$", isValid: False)

Group Summary
Uqs.Customer.Tests.Unit.ProfileSer
Tests in group: 5
Source: ProfileServiceTests.cs
Total Duration: 2 ms
Outcomes
1 Passed
4 Failed





Chapter 6: The FIRSTHAND Guidelines of TDD

WeatherForecastController.cs

```
41 public async Task<IEnumerable<WeatherForecast>> GetReal()
42 {
43     const decimal GREENWICH_LAT = 51.4810m;
44     const decimal GREENWICH_LON = 0.0052m;
45     OneCallResponse res = await _client.OneCallAsync
46         (GREENWICH_LAT, GREENWICH_LON, new[] {
47             Excludes.Current, Excludes.Minutely,
48             Excludes.Hourly, Excludes.Alerts }, Units.Metric);
49
50     WeatherForecast[] wfs = new WeatherForecast[FORECAST_DAYS];
51     for (int i = 0; i < wfs.Length; i++)
52     {
53         var wf = wfs[i] = new WeatherForecast();
54         wf.Date = res.Daily[i + 1].Dt;
55         double forecastedTemp = res.Daily[i + 1].Temp.Day;
56         wf.TemperatureC = (int)Math.Round(forecastedTemp);
57         wf.Summary = MapFeelToTemp(wf.TemperatureC);
58     }
59     return wfs;
60 }
61
62 private string MapFeelToTemp(int temperatureC)
63 {
64     if (temperatureC <= 0)
65     {
66         return Summaries.First();
67     }
68     int summariesIndex = (temperatureC / 5) + 1;
69     if (summariesIndex >= Summaries.Length)
70     {
71         return Summaries.Last();
72     }
73     return Summaries[summariesIndex];
74 }
75 }
```

Test Explorer

35 tests, 34 passed, 1 failed

- Uqs.Weather.Tests.Unit (34)
- Uqs.Weather.Tests.Unit (34)
- WeatherForecastControllerT...
- ConvertCToF_0Celsius_32F...
- ConvertCToF_Celsius_Corr...
- GetReal_5DaysForecastSta...
- GetReal_ForecastingFor5D...
- GetReal_NotInterestedInT...
- GetReal_RequestsToOpen...
- GetReal_Summary_Matche...
- GetReal_TodayWeatherAn...
- GetReal_TodayWeatherAn...
- GetReal_WFDoesntConsid...
- WeatherForecastControllerT...

Code lines covered by the highlighted tests

Manage Extensions

Sort by: Relevance

Fine Code Coverage

Visualize unit test code coverage easily for free in Visual Studio Community Edition (and other editions too)

Code alignment

Code alignment helps you present your code beautifully, enhancing clarity and readability.

Code Converter (VB - C#)

Convert VB.NET to C# and vice versa with this roslyn based converter

Open in Visual Studio Code

Adds a menu command that lets you open any solution,...

Created By: Fortune Ngweanya
Version: 1.1.154
Installs: 3015
Pricing Category: Free
Rating: ★★★★★ (1 Vote)
[More Information](#)
[Report Extension to Microsoft](#)

Scheduled For Install: None
Scheduled For Update: None

Change your settings for Extensions

Close

Fine Code Coverage											
Coverage Summary Risk Hotspots			Rate & Review Log Issue/Suggestion			Buy me a coffee					
Collapse all Expand all			By assembly			Filter:					
			Grouping:								
Name	Covered	Uncovered	Coverable	Total	Line coverage	Covered	Total	Branch coverage			
- Uqs.Weather	47	38	85	154	55.2%	6	10	60%			
Program	0	21	21	36	0%	0	2	0%			
Uqs.Weather.Controllers.WeatherForecastController	44	11	55	89	80%	6	8	75%			
Uqs.Weather.WeatherForecast	3	1	4	12	75%	0	0				
Uqs.Weather.Wrappers.NowWrapper	0	1	1	6	0%	0	0				
Uqs.Weather.Wrappers.RandomWrapper	0	4	4	11	0%	0	0				
+ Uqs.Weather.Tests.Integration	14	0	14	38	100%	2	2	100%			
+ Uqs.Weather.Tests.Unit	145	0	145	309	100%	6	6	100%			

Fine Code Coverage Error List Output

WeatherForecastController.cs

Uqs.Weather

Uqs.Weather.Controllers.WeatherI

FORECAST_DAYS

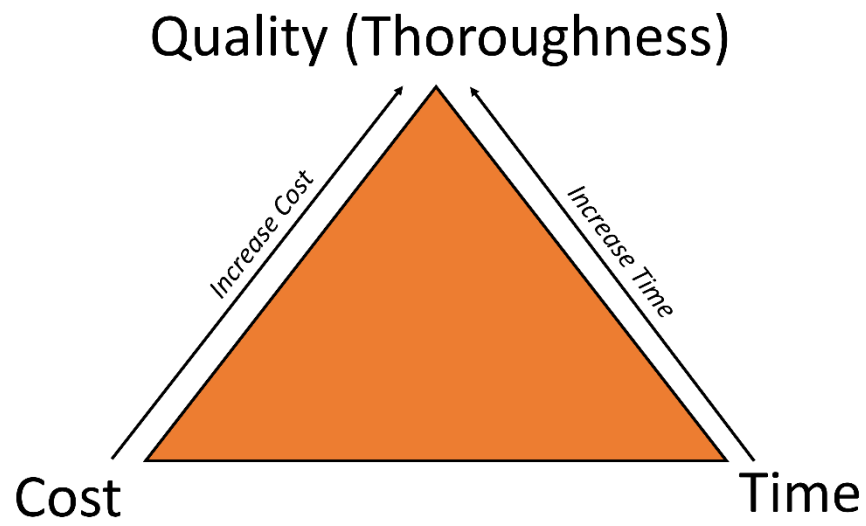
```

72     }
73     return Summaries[summariesIndex];
74 }
75
76 [HttpGet("GetRandomWeatherForecast")]
77 0 references
78 public IEnumerable<WeatherForecast> GetRandom()
79 {
80     WeatherForecast[] wfs = new WeatherForecast[FORECAST_DAYS];
81     for (int i = 0; i < wfs.Length; i++)
82     {
83         var wf = wfs[i] = new WeatherForecast();
84         wf.Date = _nowWrapper.Now.AddDays(i + 1);
85         wf.TemperatureC = _randomWrapper.Next(-20, 55);
86         wf.Summary = MapFeelToTemp(wf.TemperatureC);
87     }
88     return wfs;
89 }

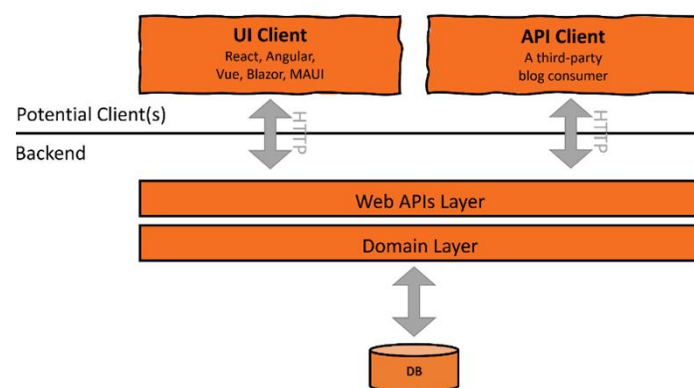
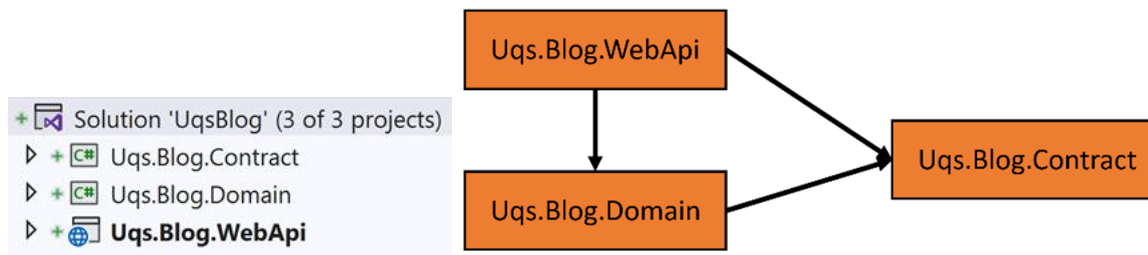
```

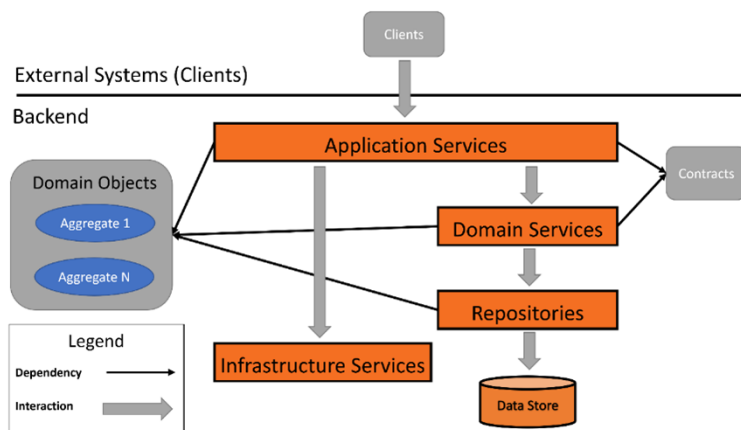
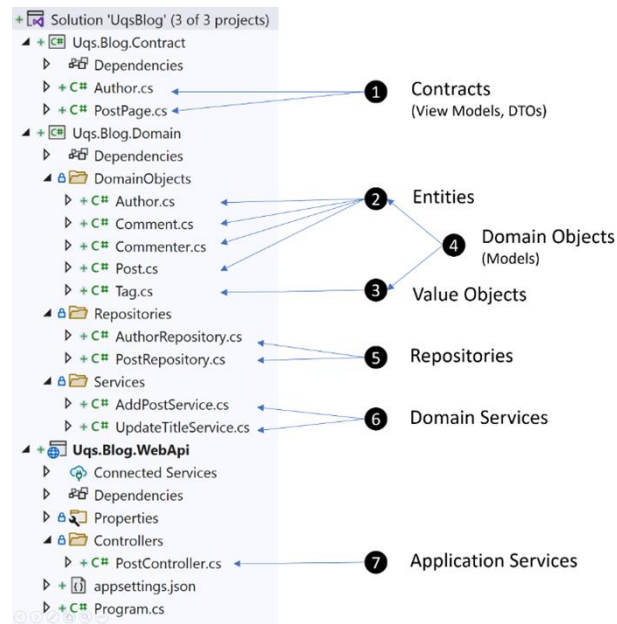
These lines and the lines in the rest of this class are green

Red lines indicating that GetRandom method is not tested at all

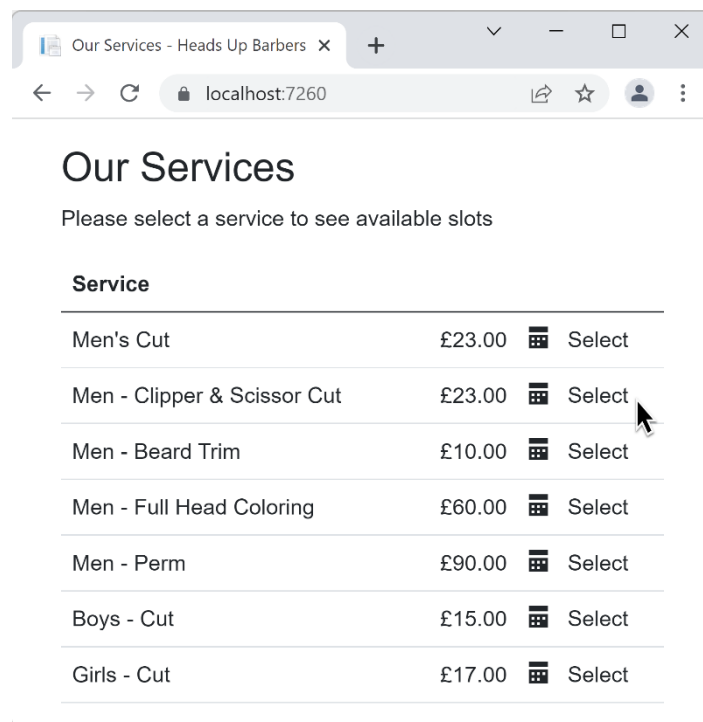
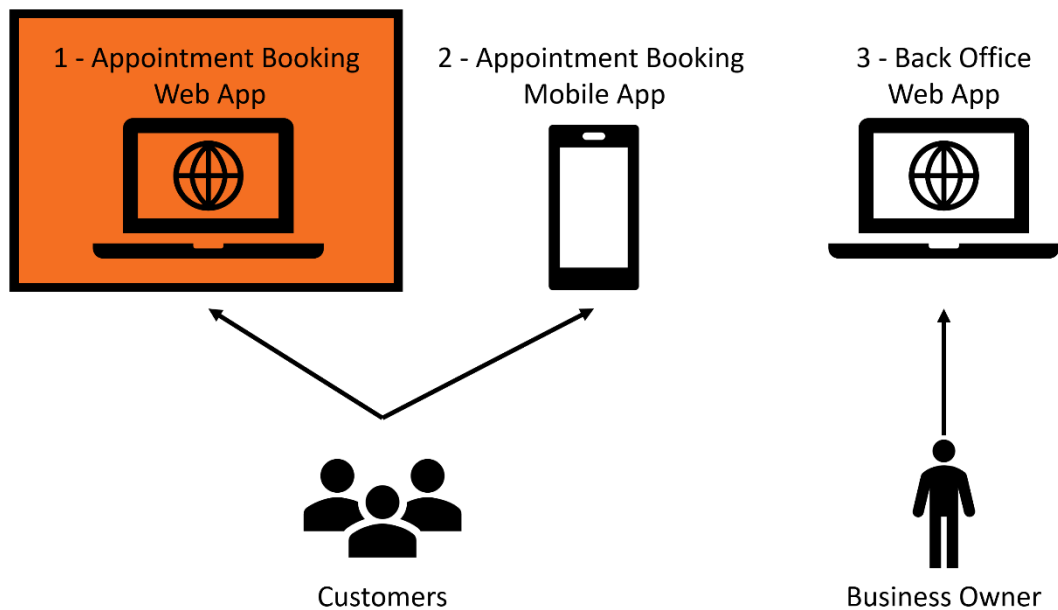


Chapter 7: A Pragmatic View of Domain-Driven Design





Chapter 8: Designing an Appointment Booking App



Booking - Heads Up Barbers

localhost:7260/booking/2

Booking

Select employee:

[Any employee] v

Select day for your appointment:

03/04/2022 v

Select start time:

- Time - v

First name: Last name:

Selected service:

Men - Clipper & Scissor Cut 30 min | £23.00

Book

Booking

Select employee:

[Any employee] v

[Any employee]
Thomas Fringe
Jane Haircomb
William Scissors
Jessica Clipper
Edward Sideburn
Oliver Bold

April 2022 v

Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Clear Today

03/04/2022 v

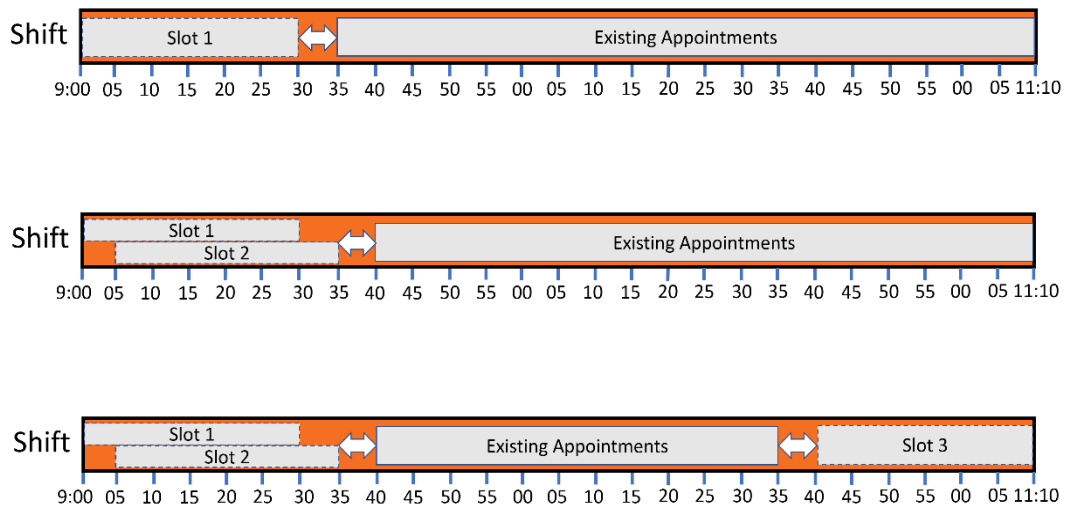
Select day for your appointment:

03/04/2022 v

Select start time:

- Time - v

- Time -
10:05
10:10
10:15
13:00
13:05



First name:

Adam

Last name:

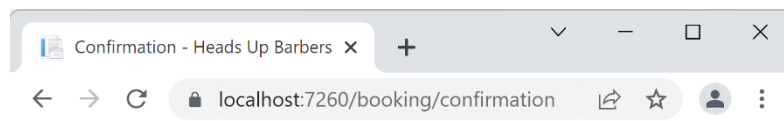
Tibi

Selected service:

Men - Clipper & Scissor Cut

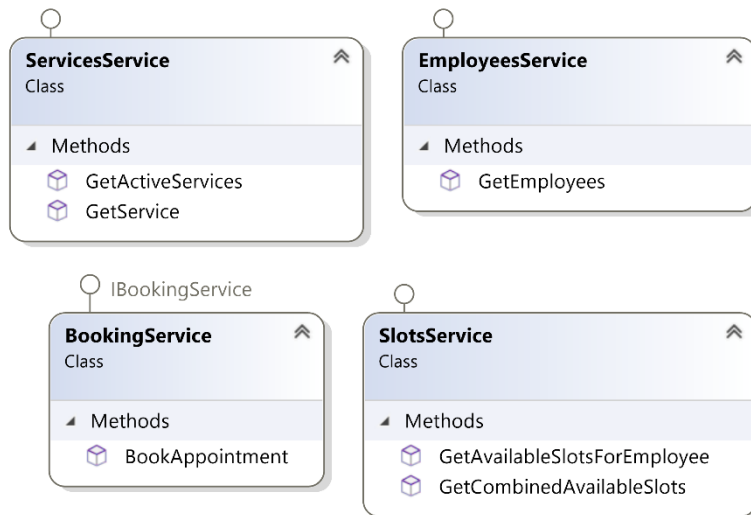
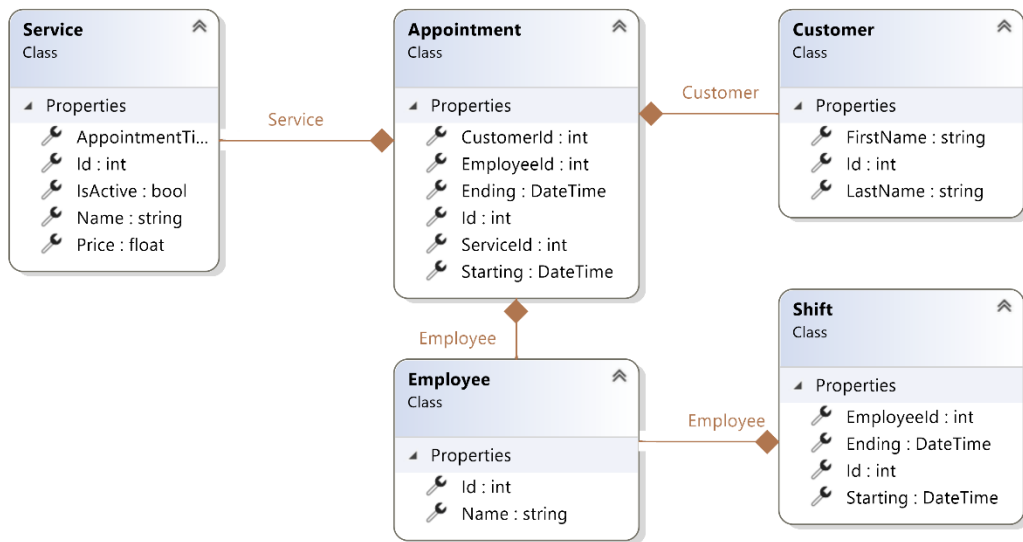
30 min | £23.00

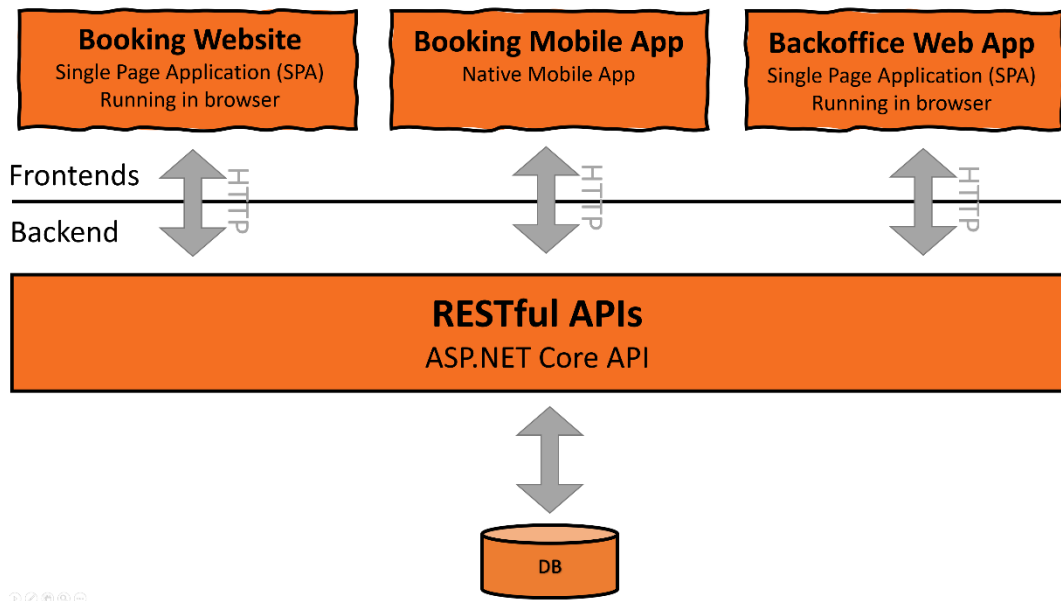
Book



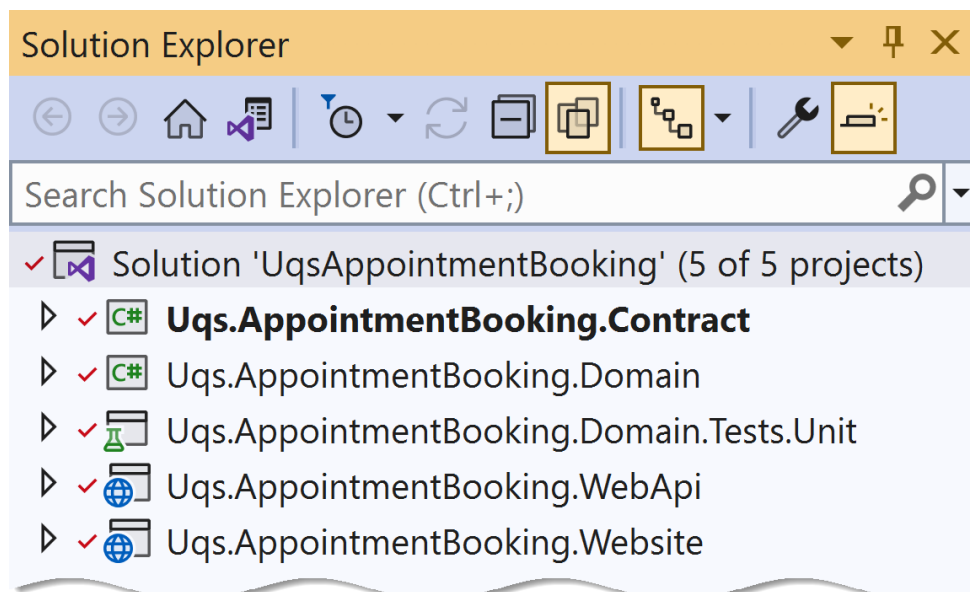
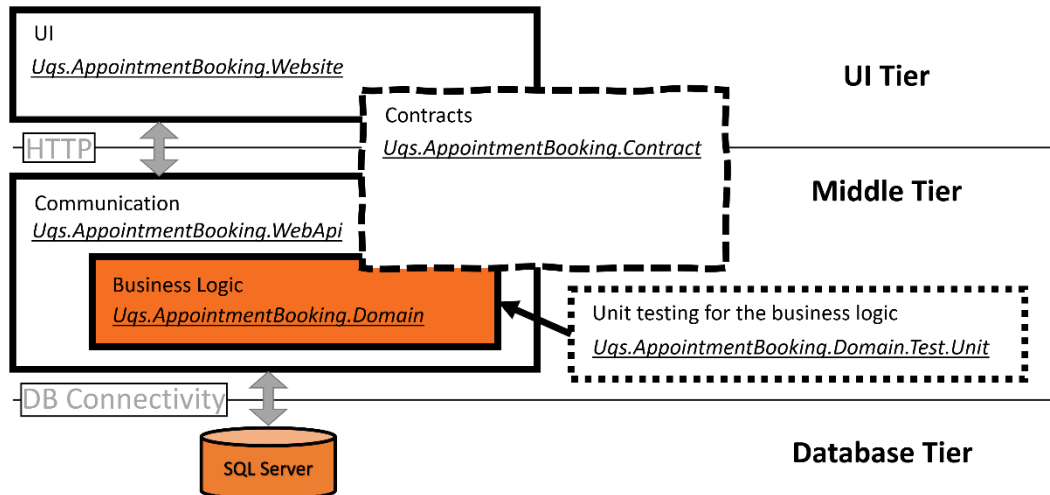
Confirmation

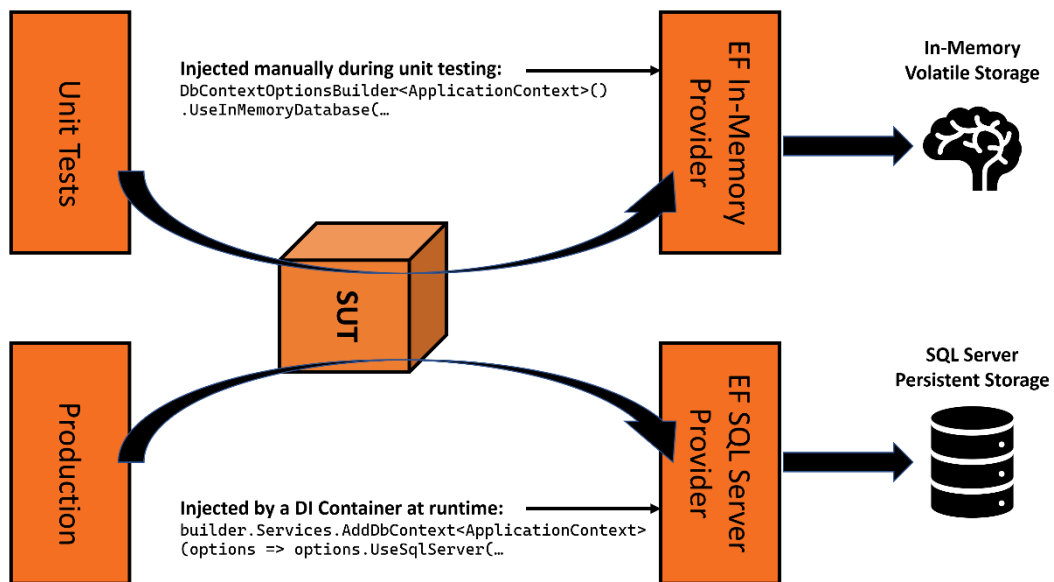
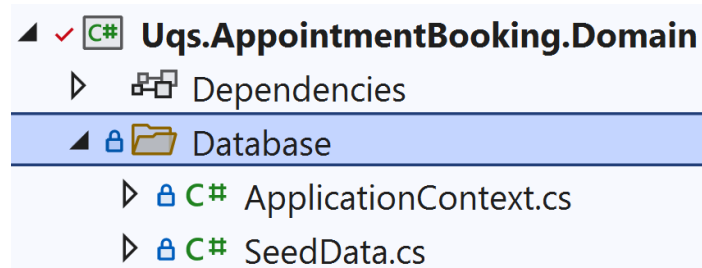
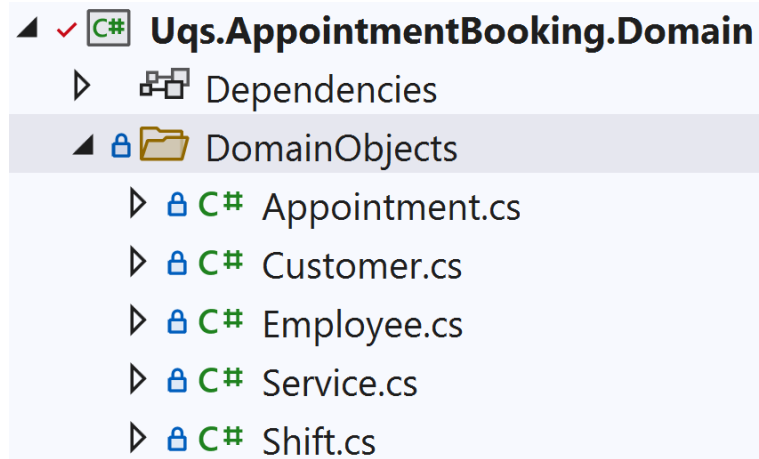
Your appointment has been confirmed.

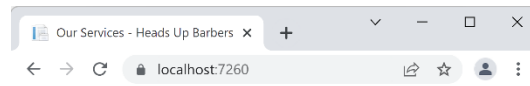




Chapter 9: Building an Appointment Booking App with Entity Framework and Relational DB












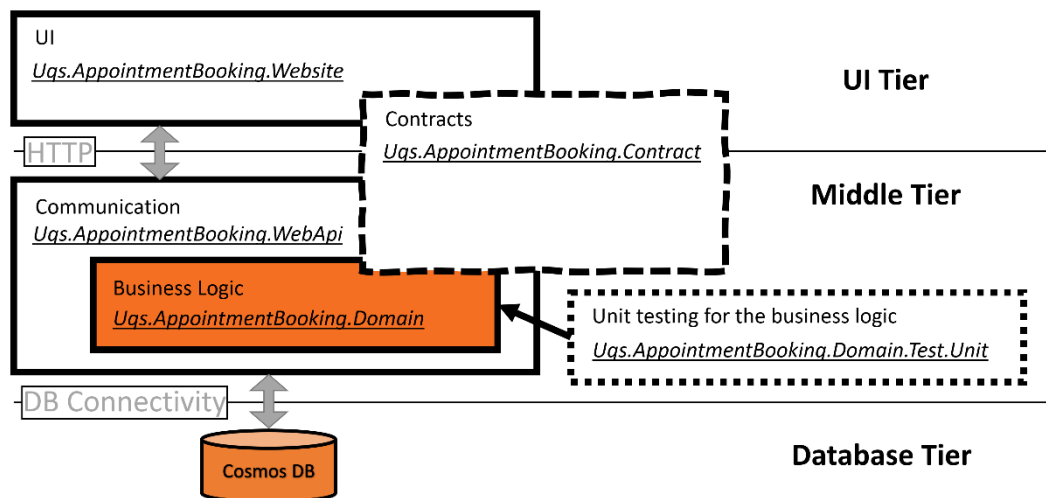
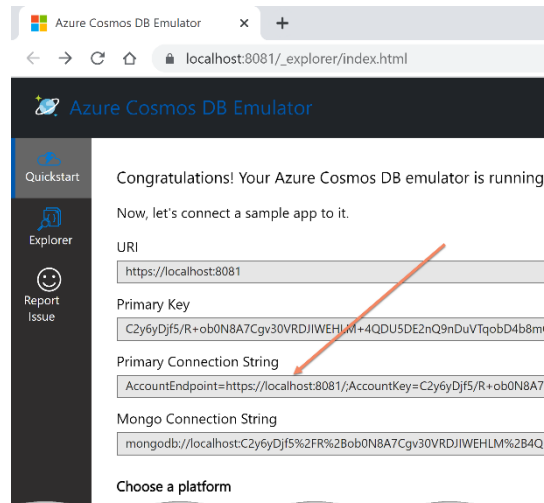


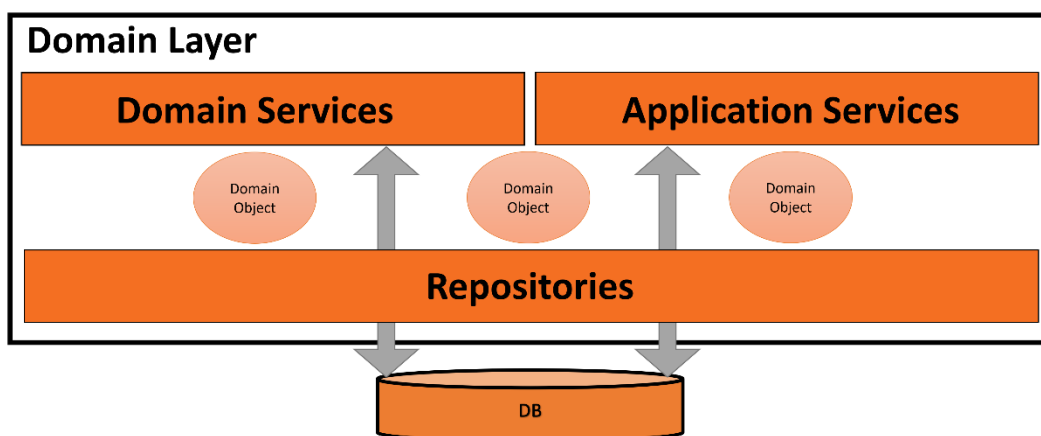
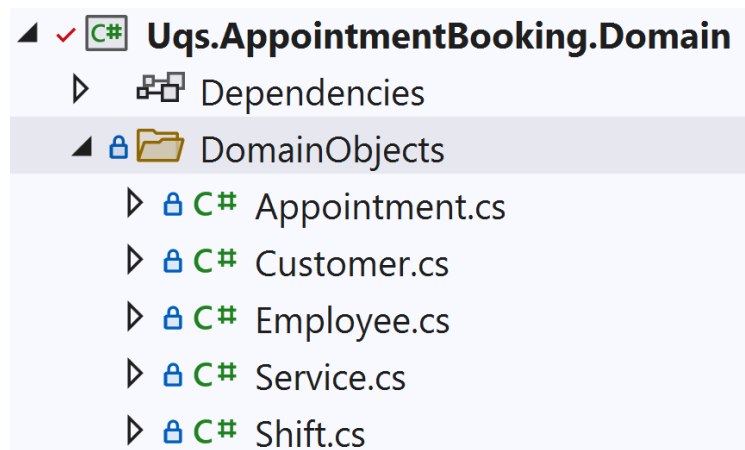
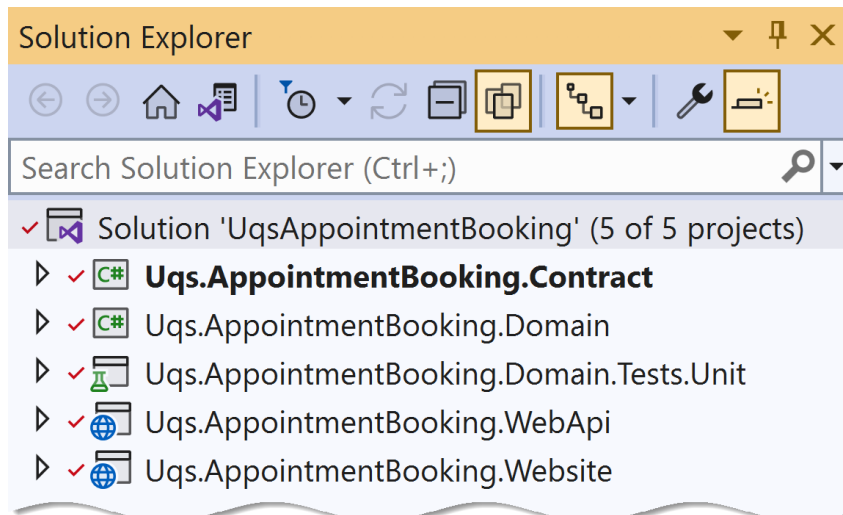
Our Services

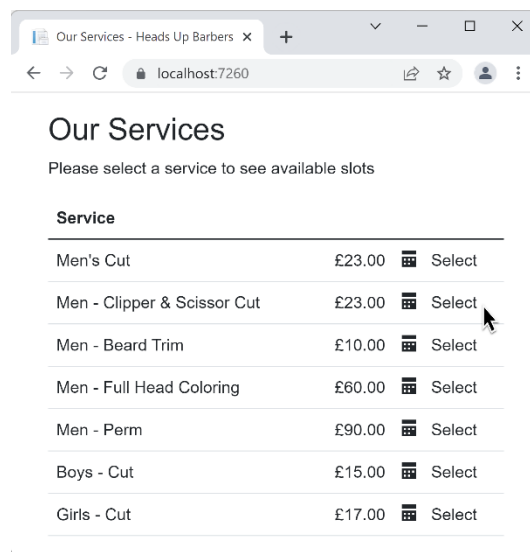
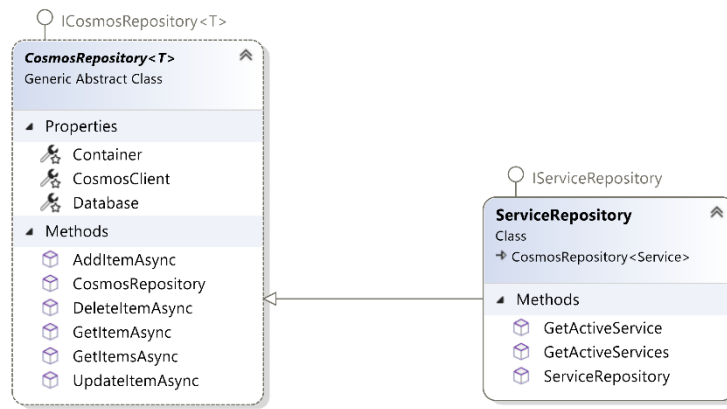
Please select a service to see available slots

Service			
Men's Cut	£23.00		Select
Men - Clipper & Scissor Cut	£23.00		Select
Men - Beard Trim	£10.00		Select
Men - Full Head Coloring	£60.00		Select
Men - Perm	£90.00		Select
Boys - Cut	£15.00		Select
Girls - Cut	£17.00		Select

Chapter 10: Building an App with Repositories and Document DB



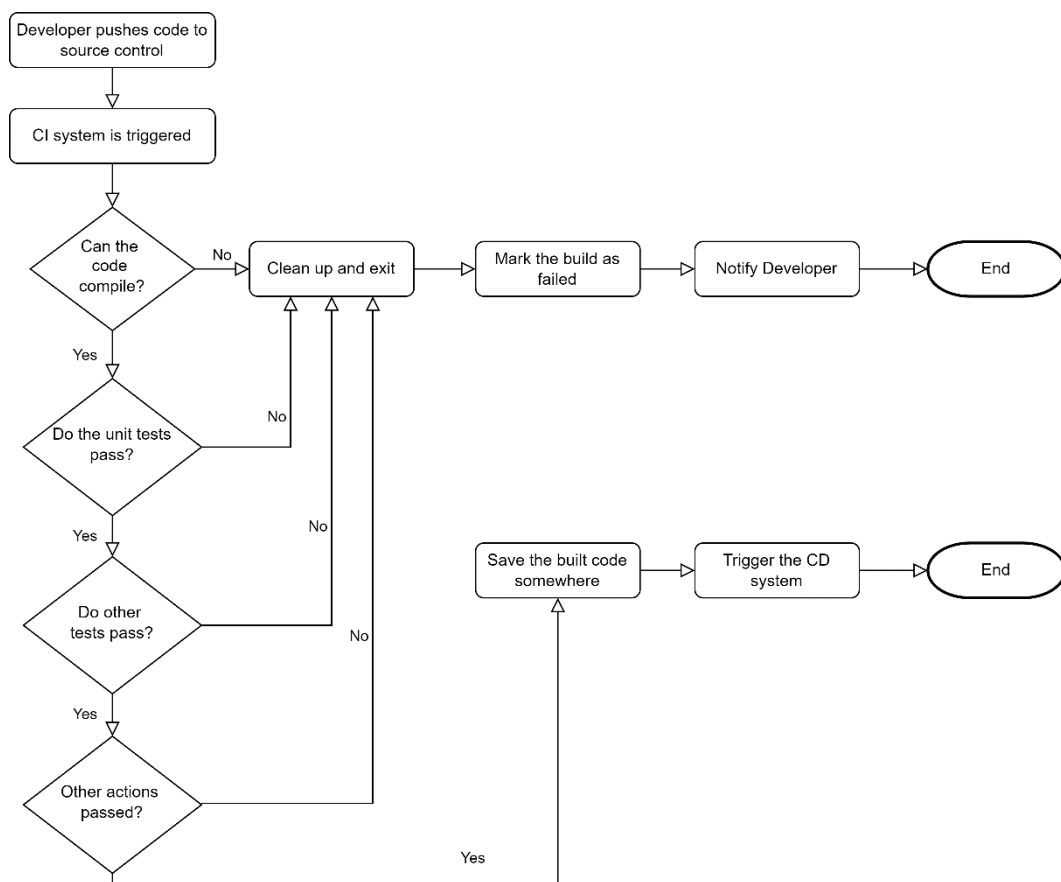


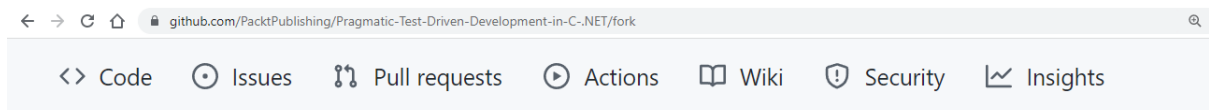
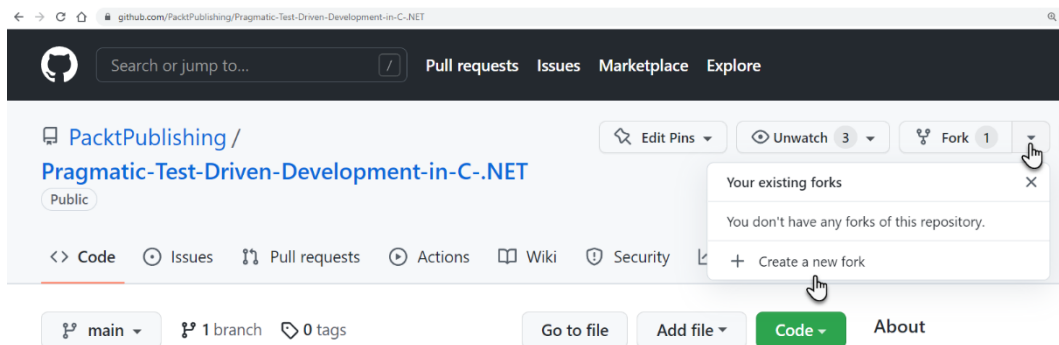


Chapter 11: Implementing Continuous Integration with GitHub Actions


OS: Linux, Mac, Windows

CI Server






Owner * Repository name *

 AdamTibi ▾ / Pragmatic-Test-Driven-Developm ✓

By default, forks are named the same as their parent repository. You can customize the name to distinguish

Description (optional)

Pragmatic Test-Driven Development in C# .NET, Published by Packt

 You are creating a fork in your personal account.

Create fork

github.com/PacktPublishing/Pragmatic-Test-Driven-Development-in-C-.NET/actions

Search or jump to... Pull requests Issues Marketplace Explore

PacktPublishing / Pragmatic-Test-Driven-Development-in-C-.NET Public

<> Code Issues Pull requests Actions Wiki Security Insights

Workflows New workflow All workflows Showing runs from all workflows

Filter workflow runs

Get started with GitHub Actions

Build, test, and deploy your code. Make code reviews, branch management, and issue triaging work the way you want. Select a workflow to get started.

Skip this and [set up a workflow yourself](#) →

Search workflows

Suggested for this repository

.NET
By GitHub Actions

Build and test a .NET or ASP.NET Core project.

Configure

C#

Jekyll
By GitHub Actions

Package a Jekyll site using the jekyll/builder Docker image.

Configure

HTML

.NET Desktop
By GitHub Actions

Build, test, sign and publish a desktop application built on .NET.

Configure

C#

Pragmatic-Test-Driven-Development-in-C-.NET / .github / workflows / dotnet.yml

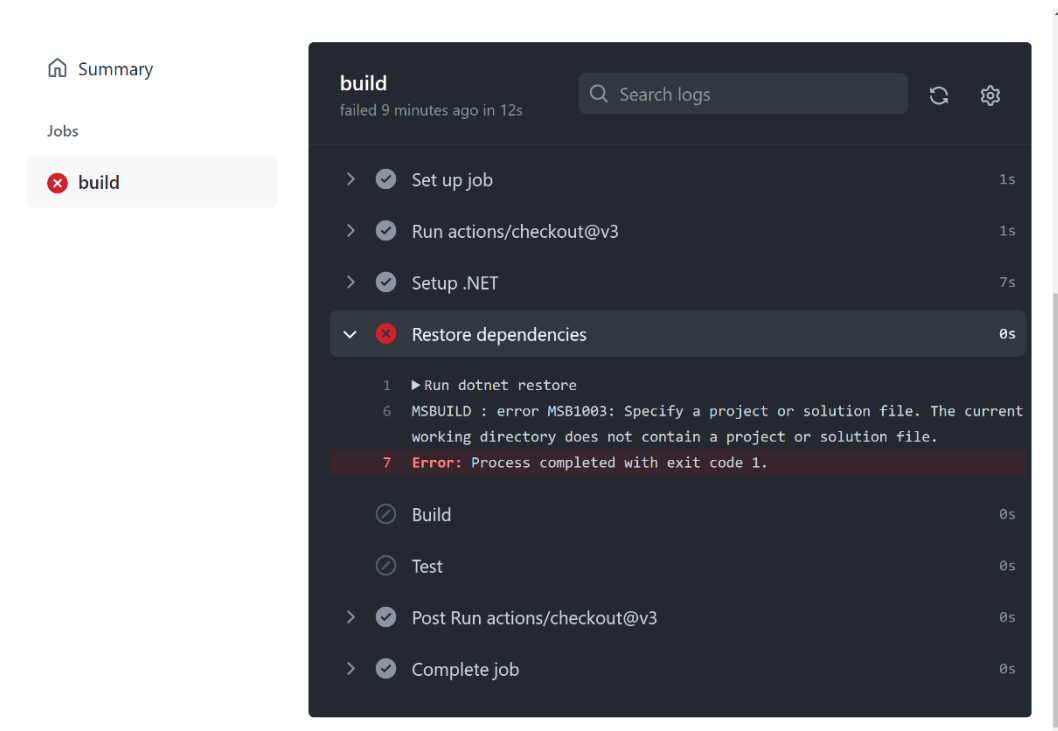
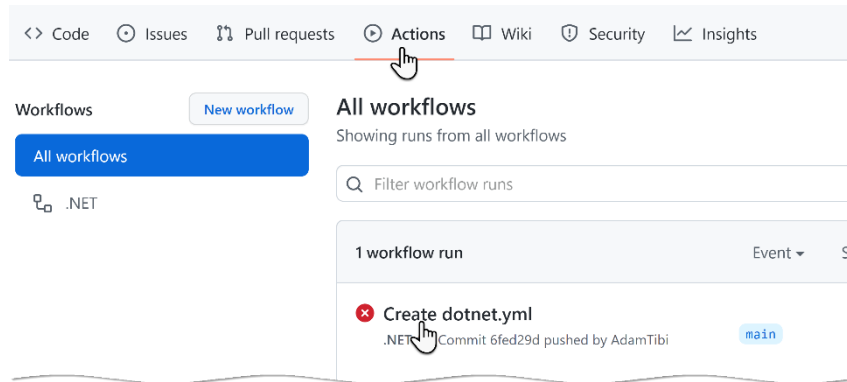
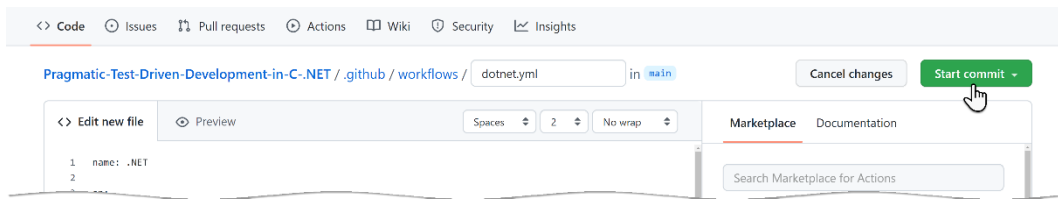
Cancel changes Start commit

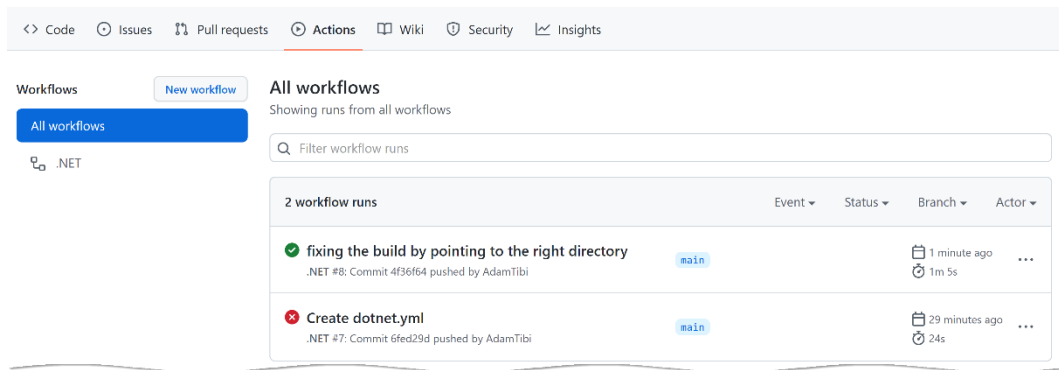
<> Edit new file Preview Spaces 2 No wrap

Marketplace Documentation

Search Marketplace for Actions

```
1 name: .NET
2
3 on:
4   push:
```



```
var employeeAppointments = await _appointmentRepository.GetAppointmentsByEmployeeIdAsync(employeeId);  
var appointments = employeeAppointments.Where(x =>  
    x.Ending < appointmentsMaxDay &&  
    ((x.Starting <= _now && x.Ending > _now) || x.Starting > _now)).ToArray();
```

build

failed 11 minutes ago in 32s

```
23     Failed Uqs.AppointmentBooking.Domain.Tests.Unit.SlotsServiceTe  
    appointmentEndStr: "2022-10-03 11:10:00", totalSlots: 0, expecte  
24     Error Message:  
25     Assert.Equal() Failure  
26     Expected: 0  
27     Actual:   21  
28     Stack Trace:  
29         at Uqs.AppointmentBooking.Domain.Tests.Unit.SlotsServiceTes  
    Int32 totalSlots, String[] expectedTimes) in /home/runner/work/P  
    C-.NET/ch10/UqsAppointmentBooking/Uqs.AppointmentBooking.Domain.  
30 --- End of stack trace from previous location ---
```



GitHub Actions

Workflow 1

file1.yml

Event



Steps

⋮

⋮

⋮

Workflow N

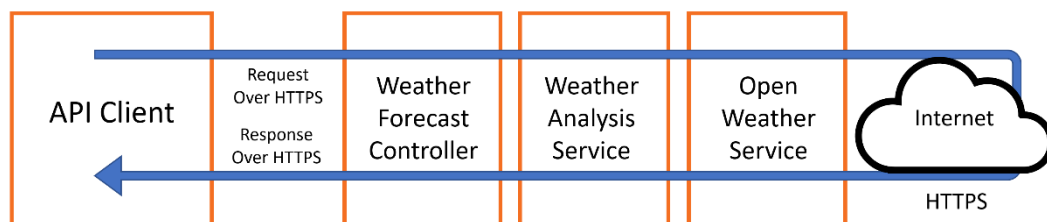
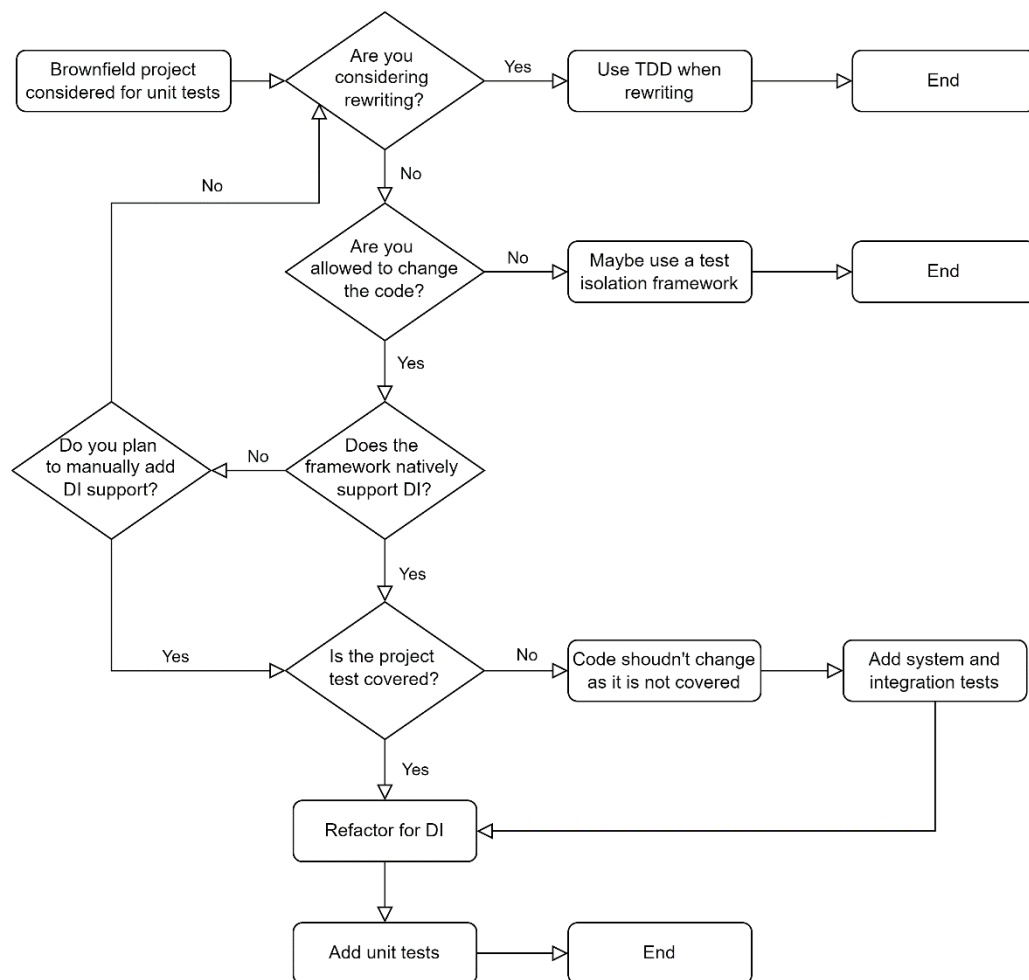
fileN.yml

Event

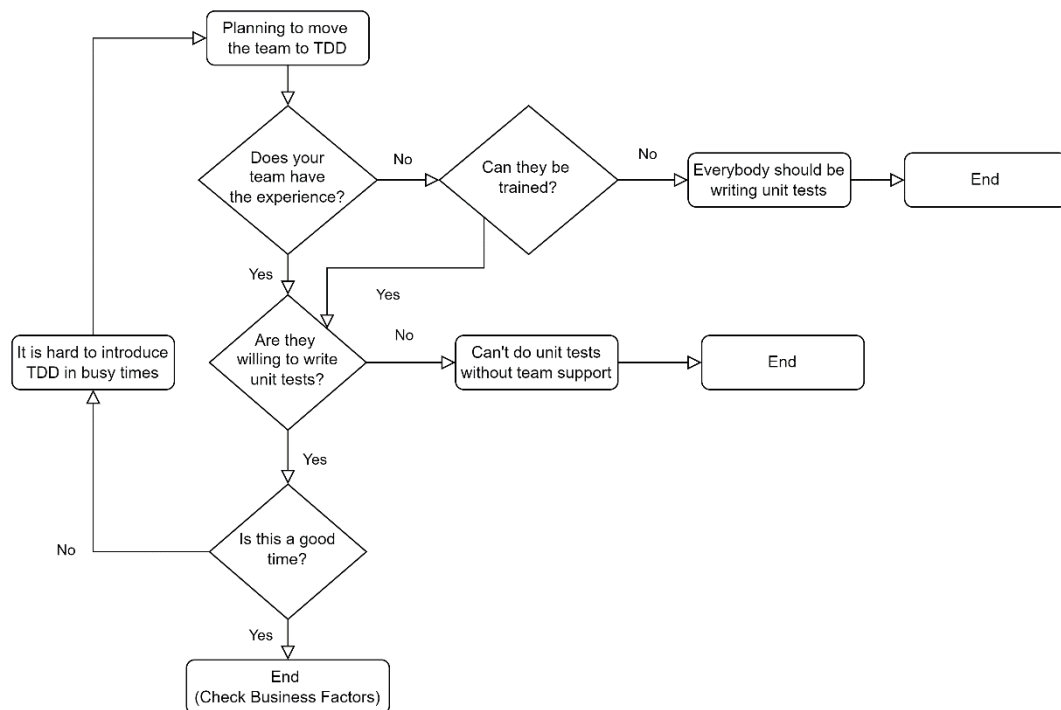
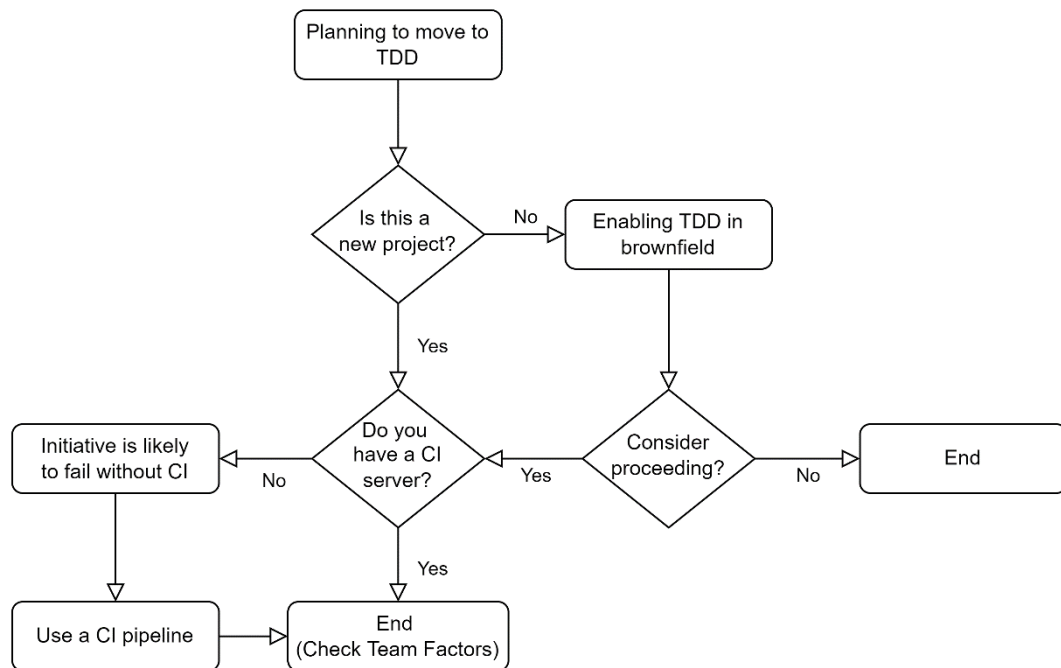


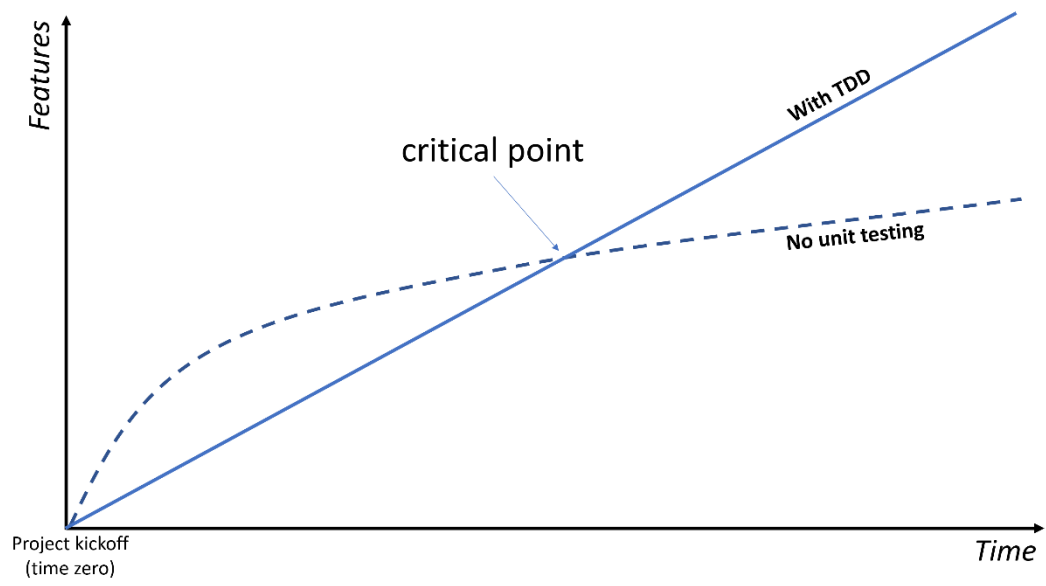
Steps

Chapter 12: Dealing with Brownfield Projects

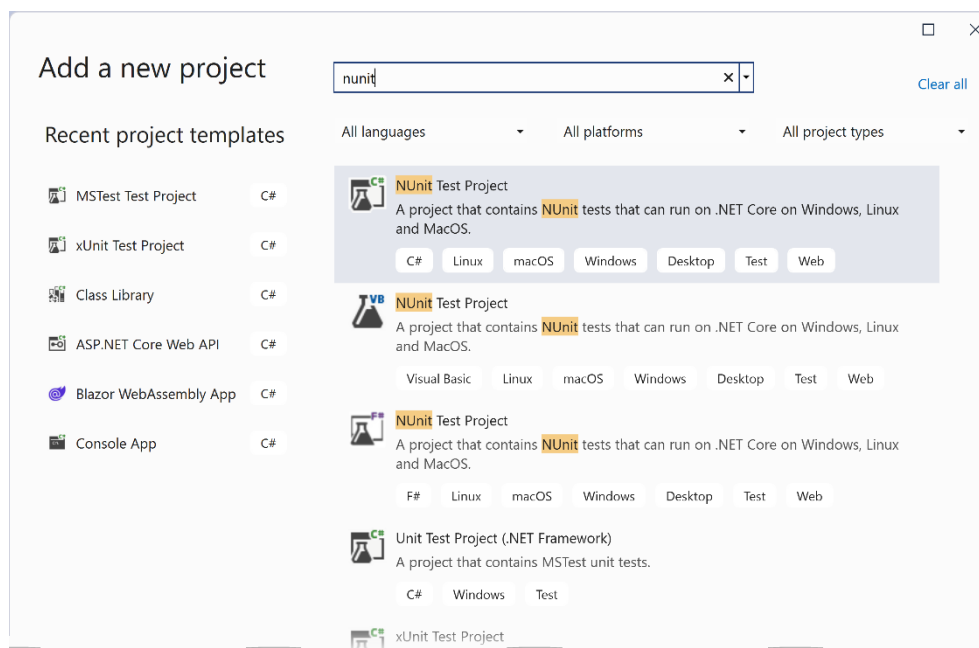
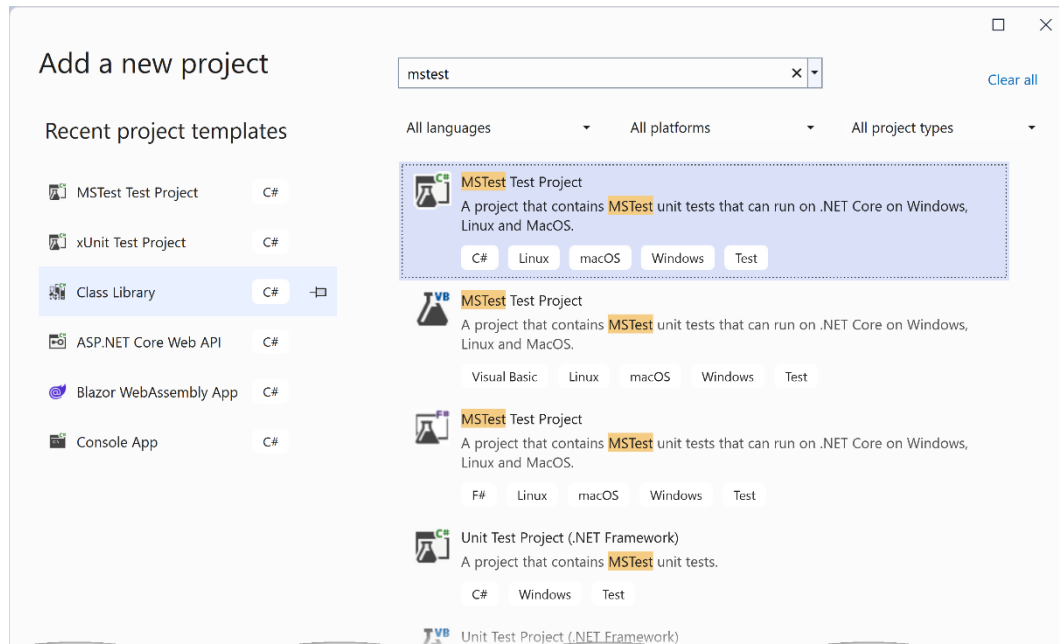


Chapter 13: The Intricacies of Rolling Out TDD





Chapter 14: Appendix 1 - Commonly Used Libraries with Unit Tests



Chapter 15: Appendix 2 - Advanced Mocking Scenarios

