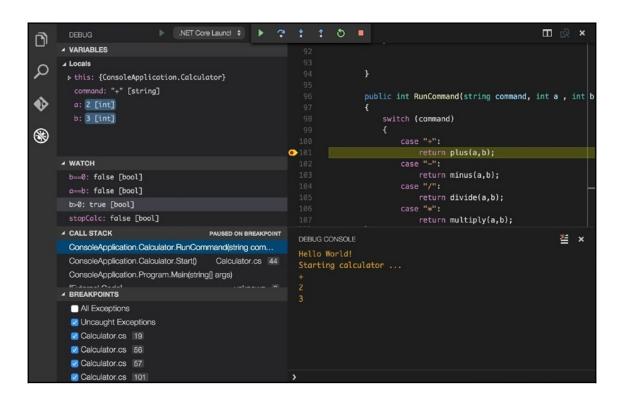
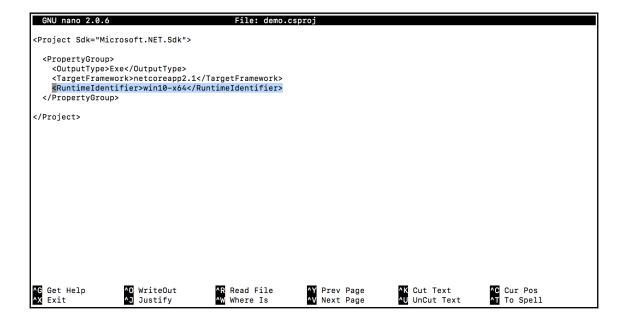
## **Chapter 1: 1.Getting Started with .NET Core**

.NET 1	.NET future innovation						
	.NET FRAMEWORK		.NET CORE	XAMARIN		TOOLS	
APP MODEL INNOVATION	WPF	Windows Forms	UWP	iOS	Android	Visual Studio	
APP	ASP.NET		ASP.NET Core	os x	7 iliaioia		
NET INNOVATION	.NET STANDARD LIBRARY One library to rule them all				Visual Studio Code		
	COMMON INFRACSTRUCTURE				Xamarin Studio		
	Compilers		Languages	Runtime components			



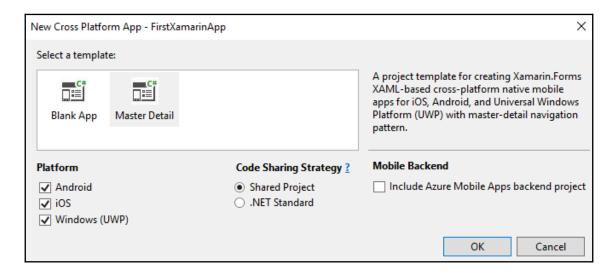
```
Cans-MBP:demo can.bilgin$ dotnet new console
The template "Console Application" was created successfully.
Processing post-creation actions...
Running 'dotnet restore' on /Volumes/Data/book/demo/demo.csproj...
  Restoring packages for /Volumes/Data/book/demo/demo.csproj...
  Generating MSBuild file /Volumes/Data/book/demo/obj/demo.csproj.nuget.g.props.
  Generating MSBuild file /Volumes/Data/book/demo/obj/demo.csproj.nuget.g.targets.
  Restore completed in 236.91 ms for /Volumes/Data/book/demo/demo.csproj.
Restore succeeded.
Cans-MBP:demo can.bilgin$ pico program.cs
Cans-MBP:demo can.bilgin$ dotnet build
Microsoft (R) Build Engine version 15.7.179.6572 for .NET Core
Copyright (C) Microsoft Corporation. All rights reserved.
  Restore completed in 56.6 ms for /Volumes/Data/book/demo/demo.csproj.
  demo -> /Volumes/Data/book/demo/bin/Debug/netcoreapp2.1/demo.dll
Build succeeded.
    0 Warning(s)
    0 Error(s)
Time Elapsed 00:00:03.85
Cans-MBP:demo can.bilgin$ dotnet run
Hello .NET Core
Cans-MBP:demo can.bilgin$
```

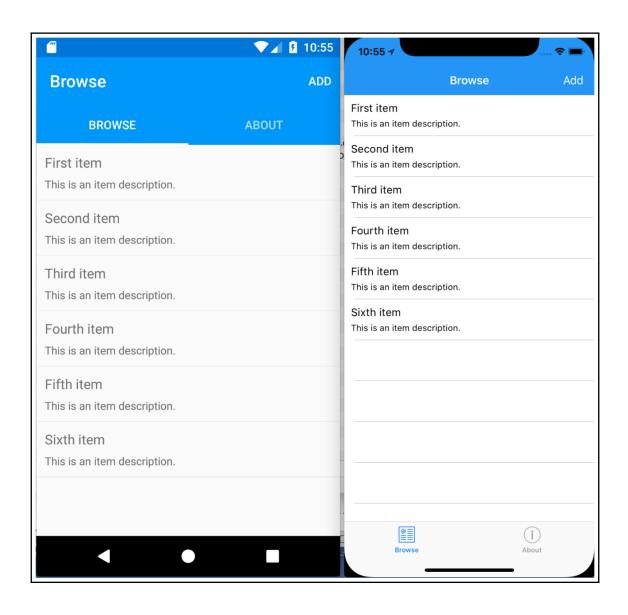


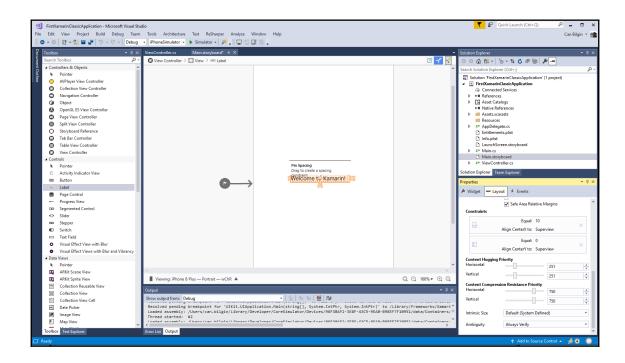


This PC > book on 'Mac' (U:) > demo > bin > Debug > netcoreapp2.1 > win10-x64 > publish				
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api-ms-win-crt-time-l1-1-0.dll	6/6/18 1:58 PM	DLL File	21 KB	
api-ms-win-crt-utility-l1-1-0.dll	6/6/18 1:58 PM	DLL File	19 KB	
o clrcompression.dll	6/6/18 1:58 PM	DLL File	713 KB	
o clretwrc.dll	6/6/18 1:58 PM	DLL File	235 KB	
o clrjit.dll	6/6/18 1:58 PM	DLL File	1,423 KB	
o coreclr.dll	6/6/18 1:58 PM	DLL File	5,824 KB	
o dbgshim.dll	6/6/18 1:58 PM	DLL File	152 KB	
🥌 demo.deps.json	7/15/18 6:24 AM	JSON File	40 KB	
o demo.dll	7/15/18 6:24 AM	DLL File	4 KB	
demo.exe	7/15/18 6:09 AM	Application	135 KB	
demo.pdb	7/15/18 6:24 AM	Program Debug Data	1 KB	
🥌 demo.runtimeconfig.json	7/15/18 6:24 AM	JSON File	1 KB	
o hostfxr.dll	6/6/18 2:04 PM	DLL File	390 KB	
o hostpolicy.dll	6/6/18 2:04 PM	DLL File	572 KB	
Microsoft.CSharp.dll	6/6/18 1:58 PM	DLL File	755 KB	
Microsoft.DiaSymReader.Native.amd64.dll	6/6/18 1:58 PM	DLL File	1,236 KB	
Microsoft.VisualBasic.dll	6/6/18 1:58 PM	DLL File	455 KB	
Microsoft.Win32.Primitives.dll	6/6/18 1:58 PM	DLL File	22 KB	

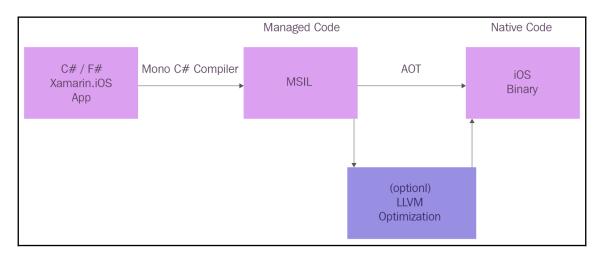
## Chapter 2: 2.Xamarin, Mono, and .NET Standard

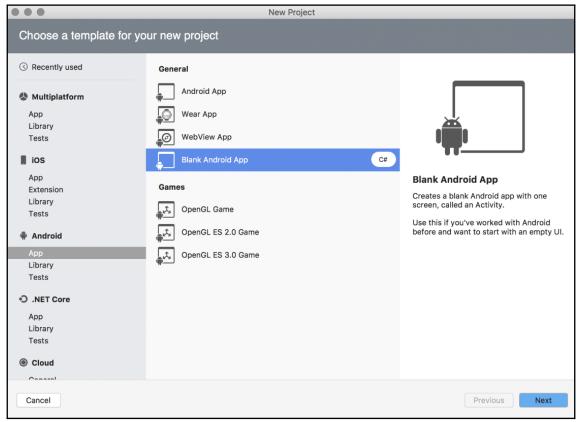


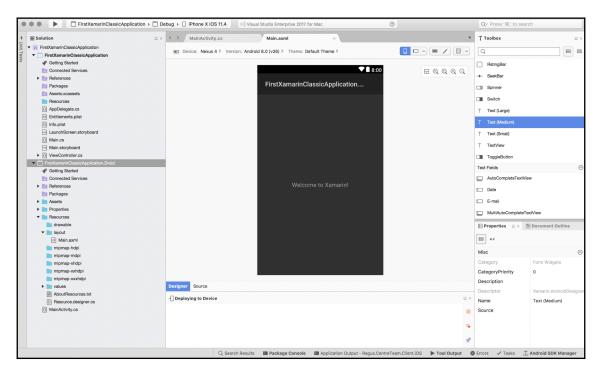


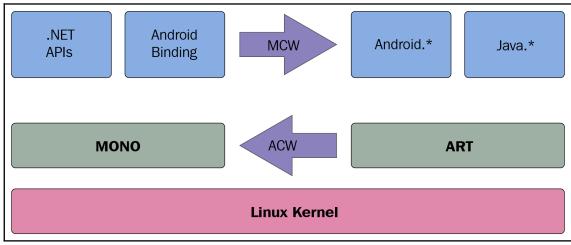


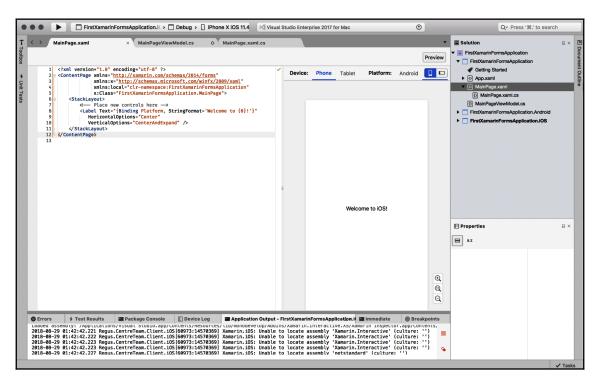
Carrier 🛜	9:49 AM	• *
	Welcome to Xamarin!	

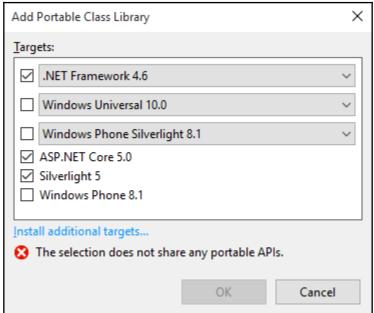


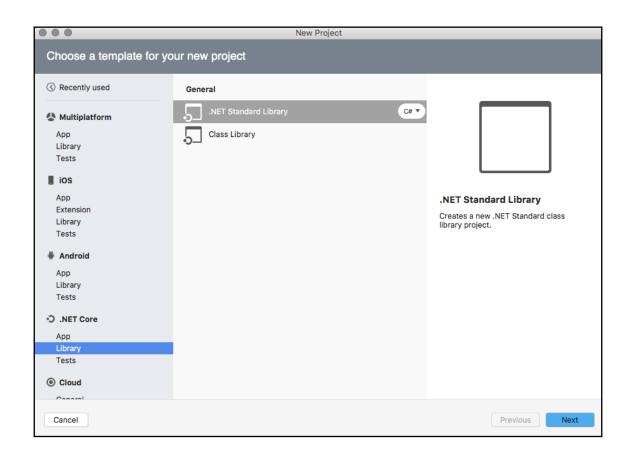


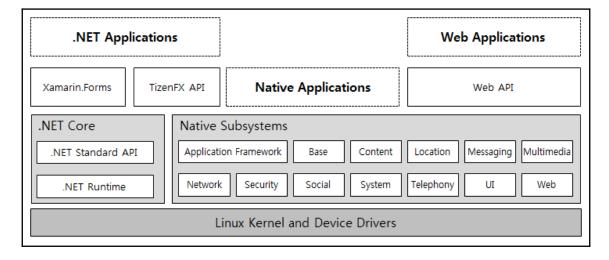




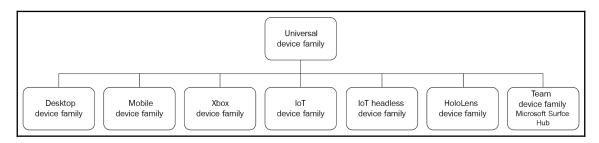


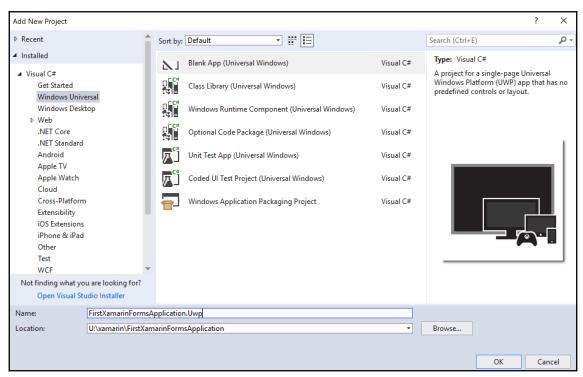


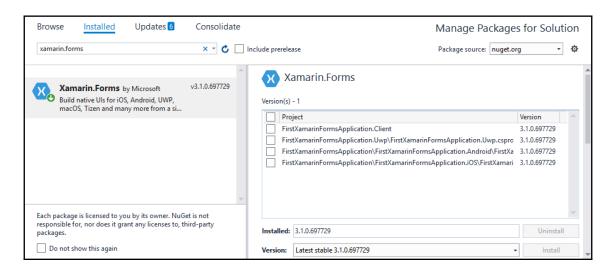


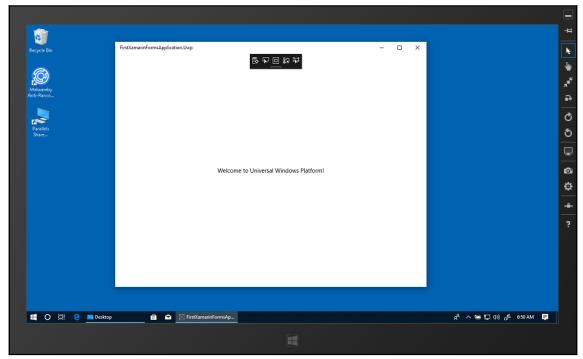


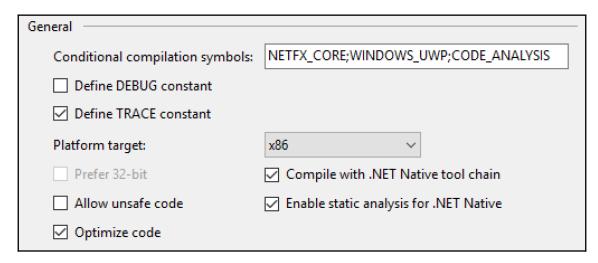
### **Chapter 3: 3.Universal Windows Platform**

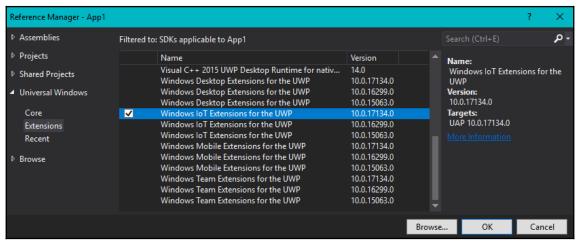




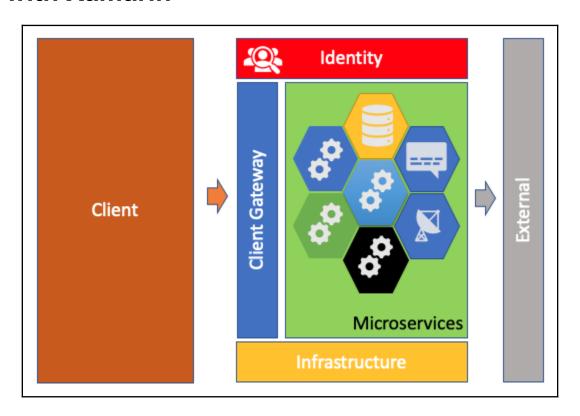


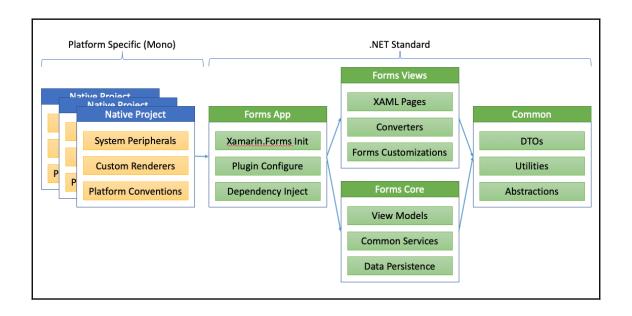


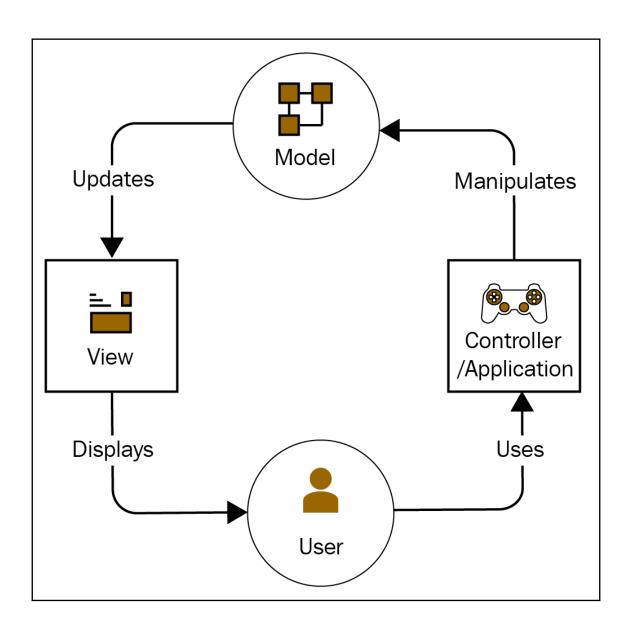


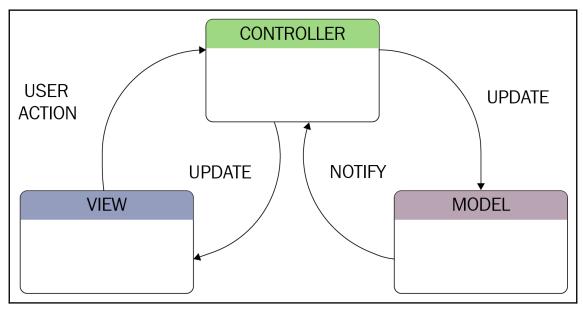


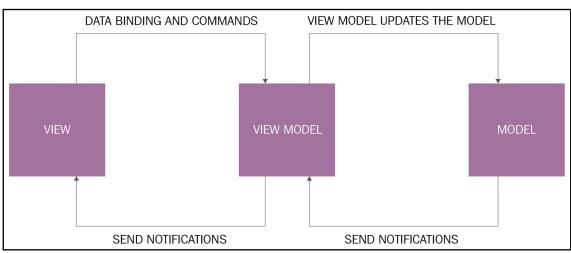
## **Chapter 4: 4.Developing Mobile Applications** with Xamarin



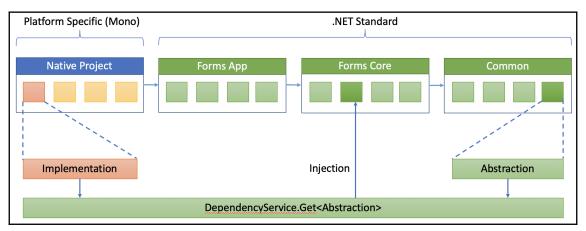


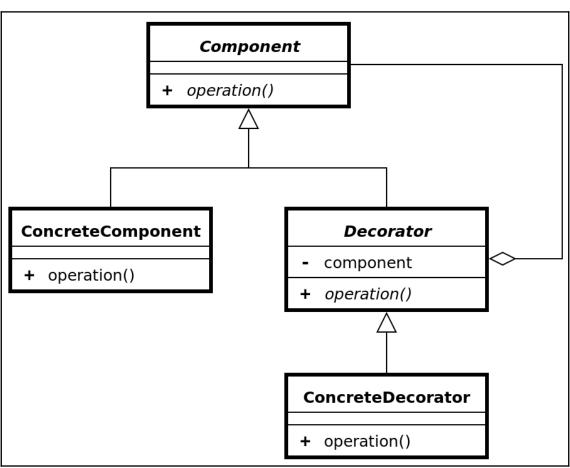




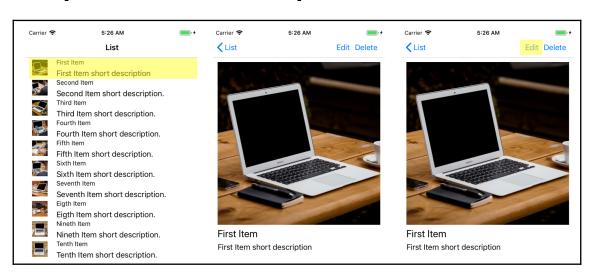


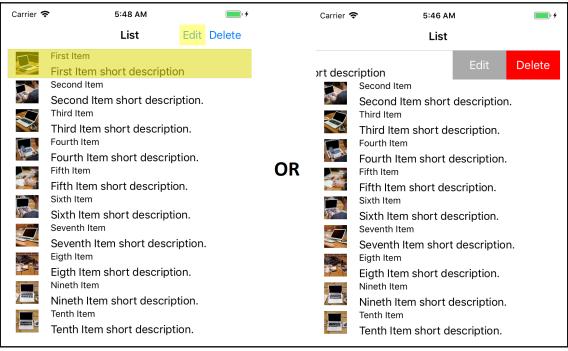
8:02 ⊀		 8:02 ⊀		· · · · • • • • • • • • • • • • • • • •
		Hermone		
Username		Username		
username		Test		
Password		Password		
password		••••		
L	.ogin		Login	

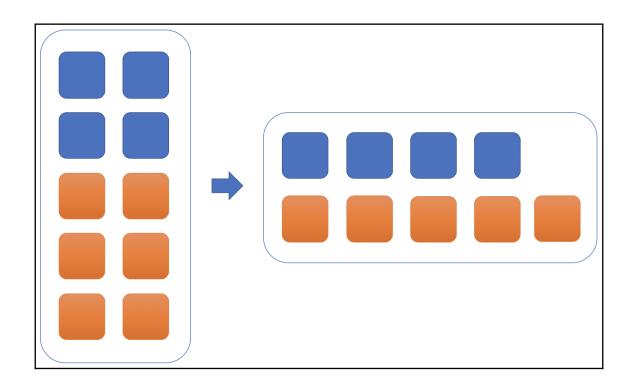


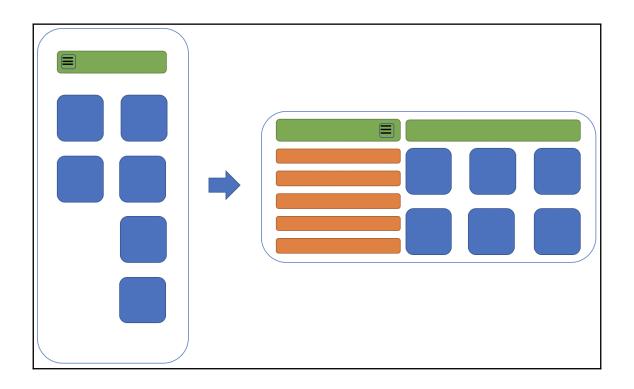


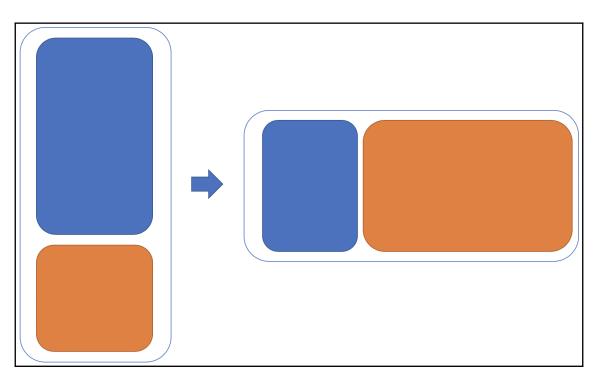
#### **Chapter 5: 5.UI Development with Xamarin**

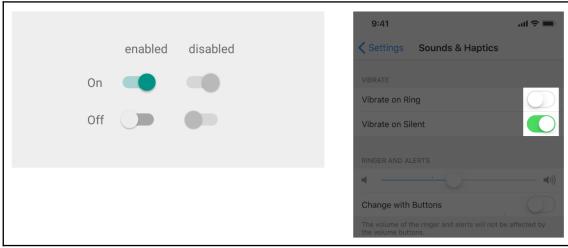




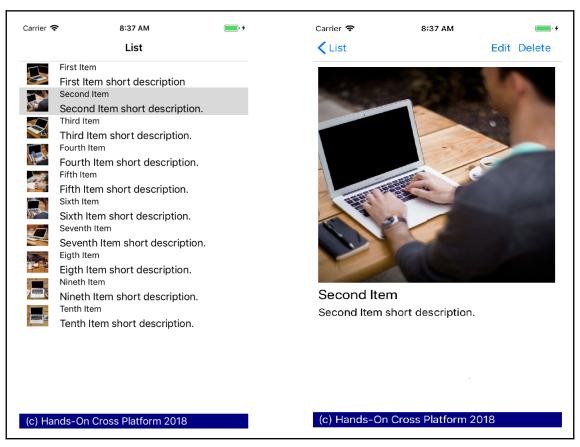














9:39 AM





**Custom Title View** 



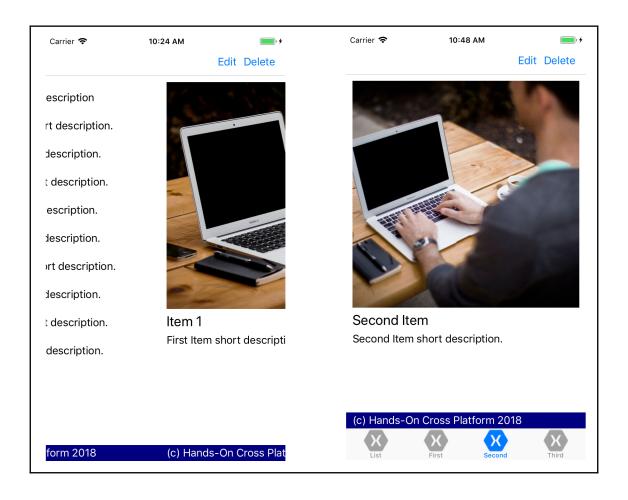
First Item

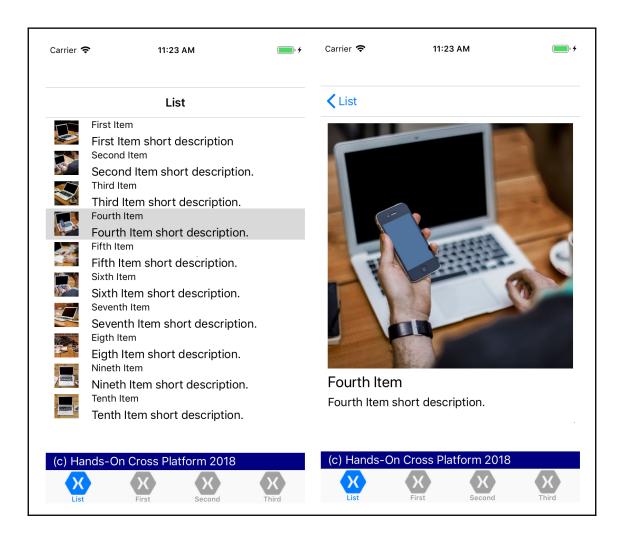
First Item short description

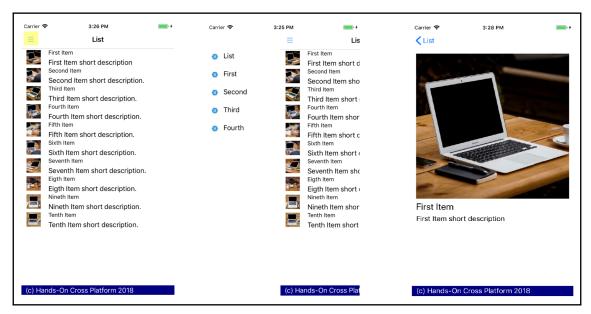


Second Item

Second Item short description.











Second Item short description.

### **Specifications**

Specification 1 Value for Specification

Another Spec. Value for Specification that

is a little longer

Specification 3 Value for Specification

Final Value Value for Specification



Nineth Item short description.



Tenth Item

Tenth Item short description.



Eleventh Item

Eleventh Item short description.



Twelveth Item

Twelveth Item short description.



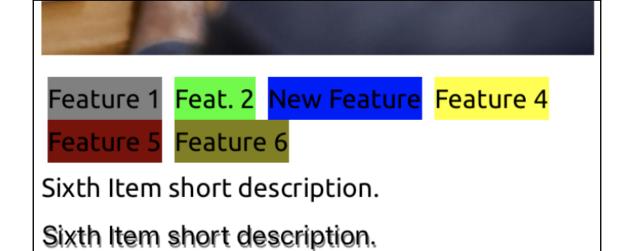
Thirteenth Item

Thirteenth Item short description



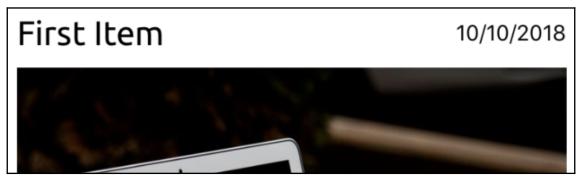


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▼ Fonts provided by application	Array	(5 items)
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	String	Ubuntu-Light.ttf
	String	Ubuntu-Regular.ttf
<u> </u>	String	Ubuntu-Medium.ttf
Add new entry		



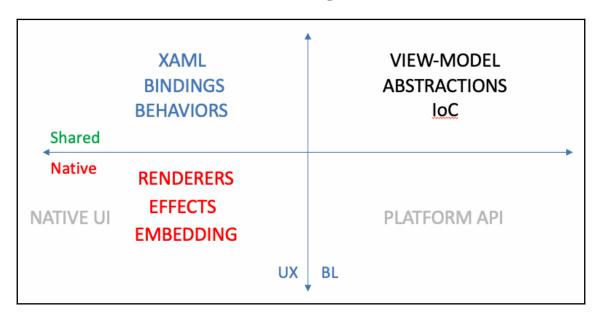


**Specifications** 



# First Item Release 10/10/2018

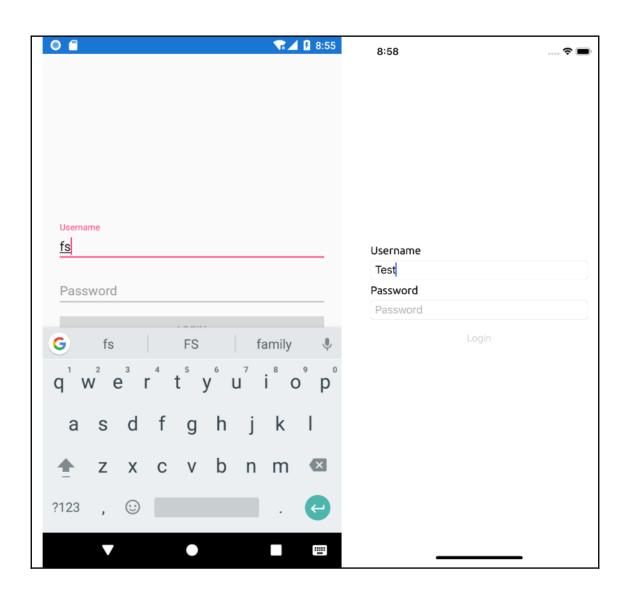
#### **Chapter 6: 6. Customizing Xamarin. Forms**

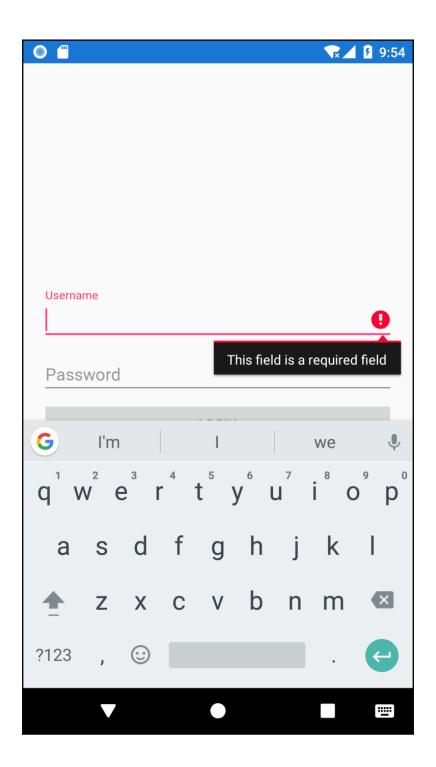




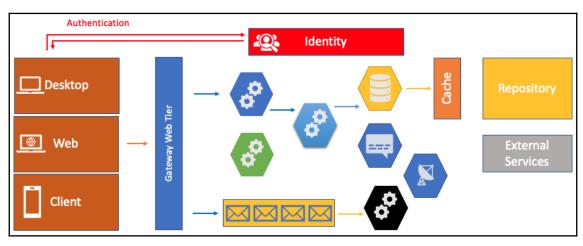


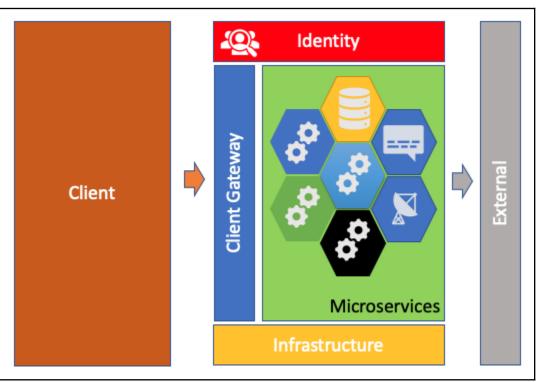


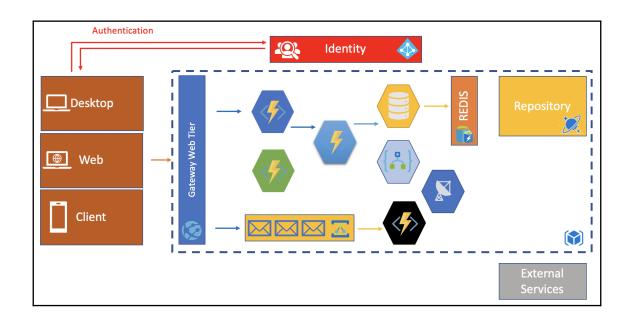


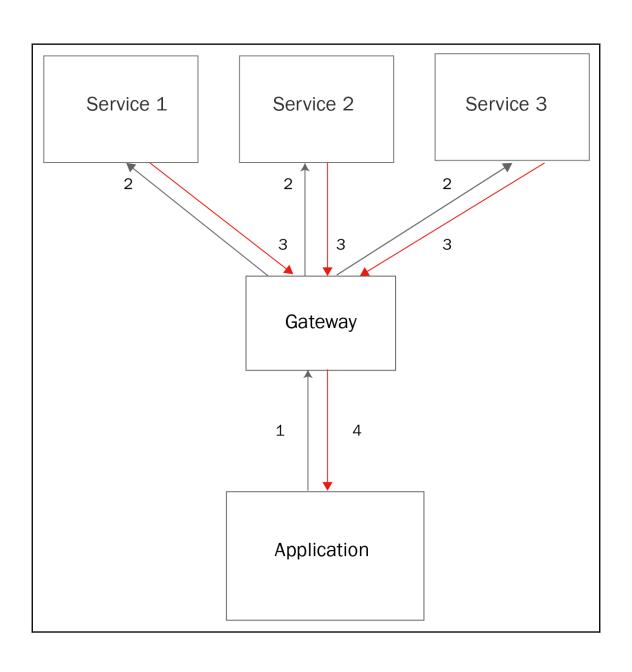


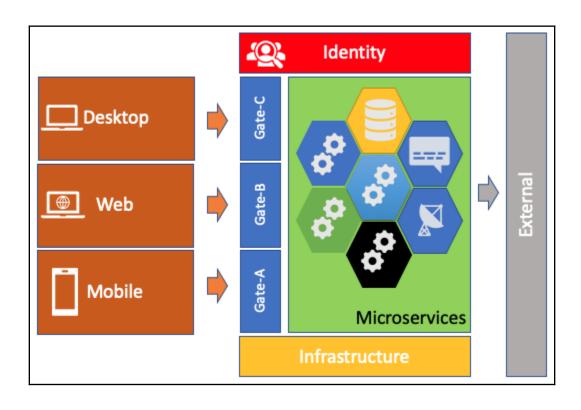
# **Chapter 7: 7.Azure Services for Mobile Applications**

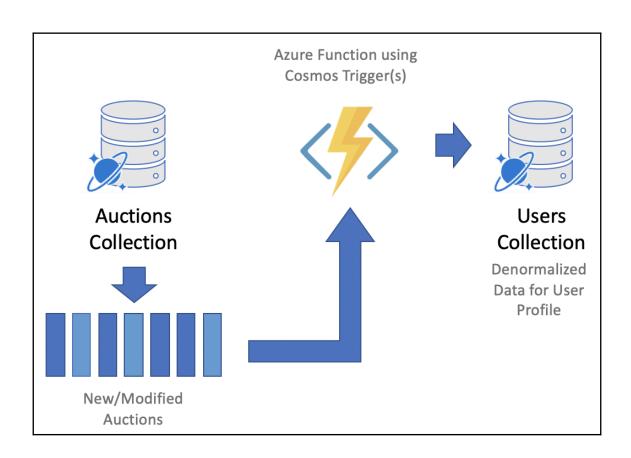


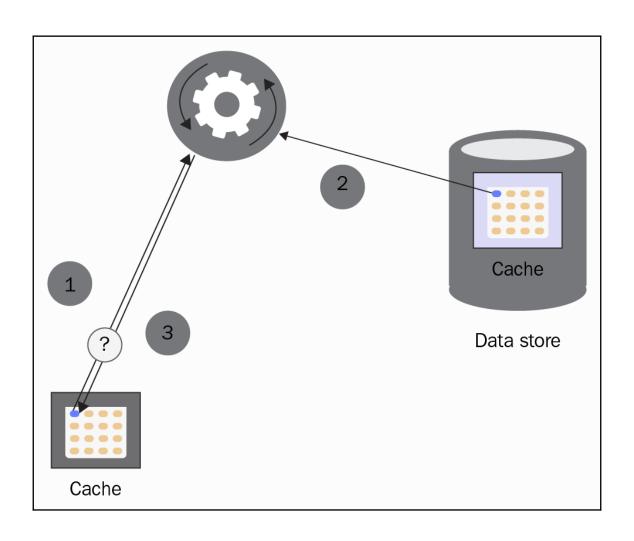


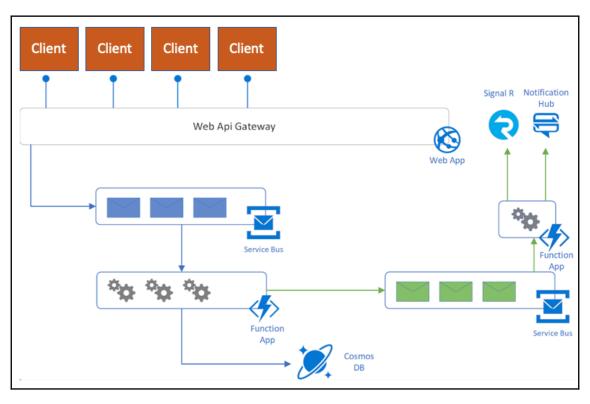




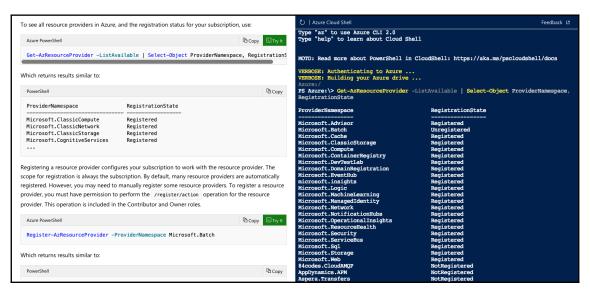




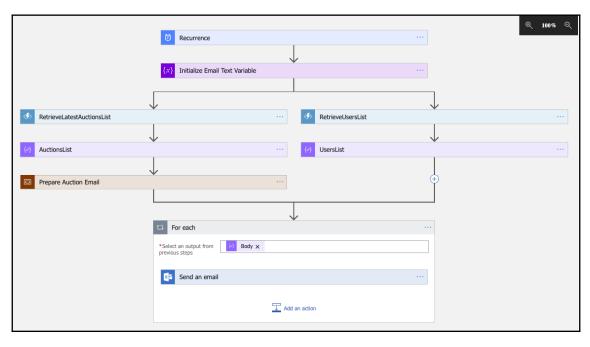


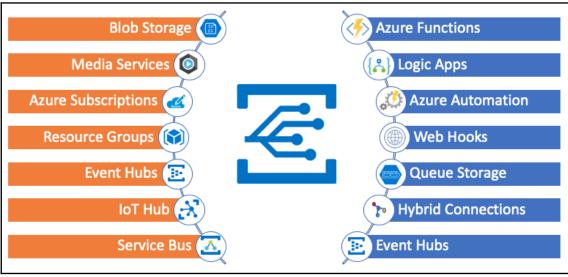


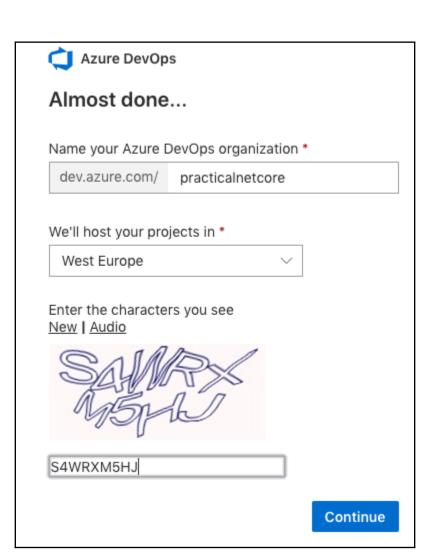


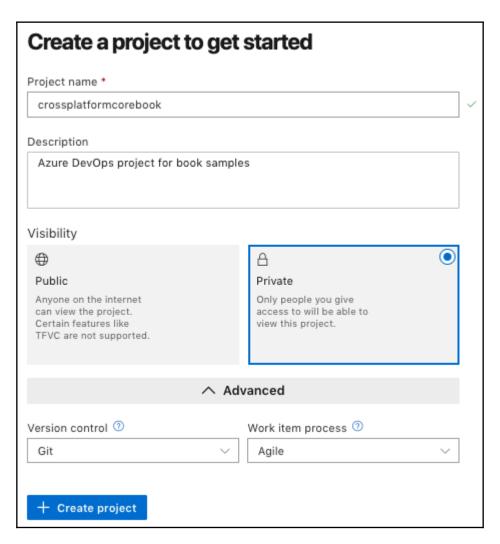


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PS Azure: \> Get-AzResourceProvider -ProviderNamespace Microsoft.Compute `
>> | Select-Object ResourceTypes, Locations
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ResourceTypes
{availabilitySets}
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{virtualMachines}
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{virtualMachines/extensions}
{virtualMachineScaleSets}
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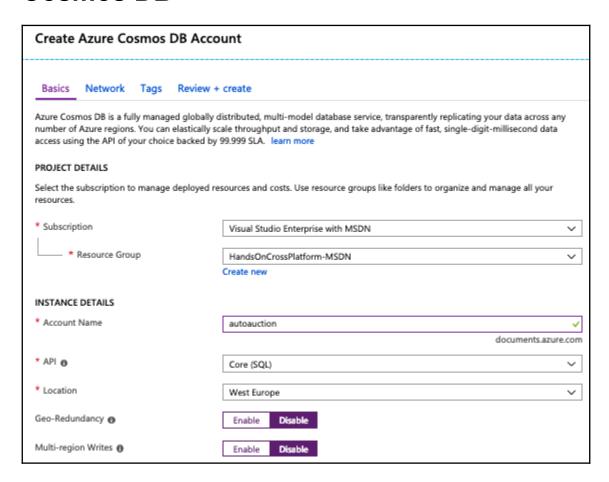




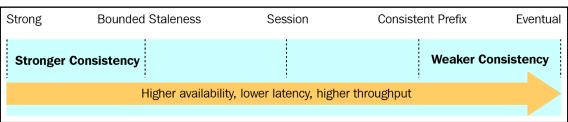




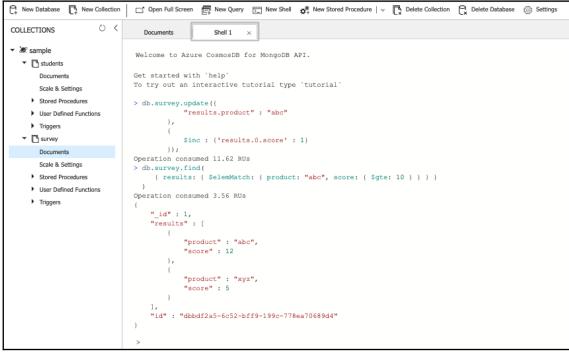
### **Chapter 8: 8.Creating a Datastore with Cosmos DB**

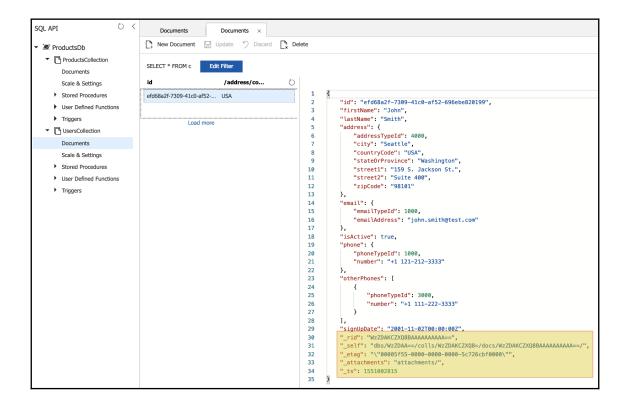








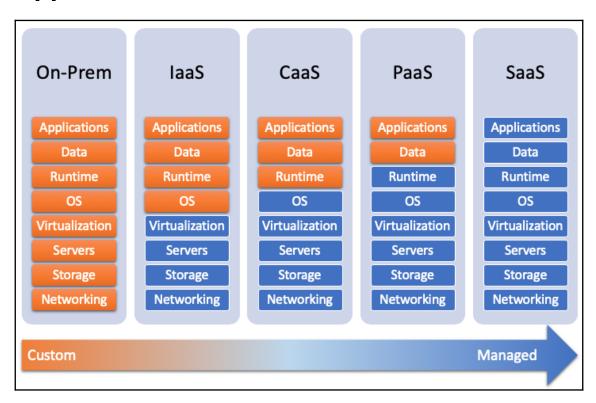


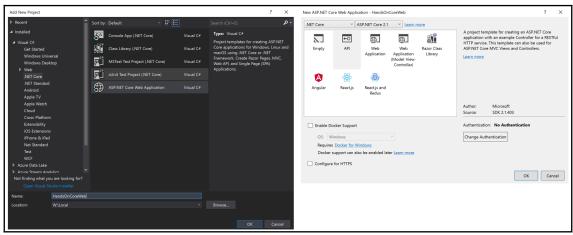


```
Partition key
/vehicle.color
Indexing Policy
   1 4
            "indexingMode": "consistent",
            "automatic": true,
   3
   4
            "includedPaths": [
                    "path": "/*",
   6
   7
                    "indexes": [
   8
                            "kind": "Range",
   9
                            "dataType": "Number",
   10
   11
                             "precision": -1
  12
  13
                            "kind": "Range",
   14
                            "dataType": "String",
   15
                             "precision": -1
   16
   17
   18
  19
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  20
   21
   22
  23
  24
            1,
            "excludedPaths": [
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   26
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   27
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   28
  29
   30
```

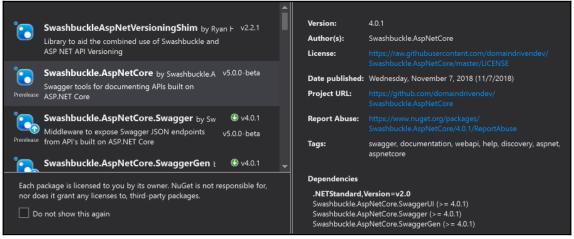
Trigger Id
updateAggregates
Trigger Type Pre \$
Trigger Operation
Replace \$

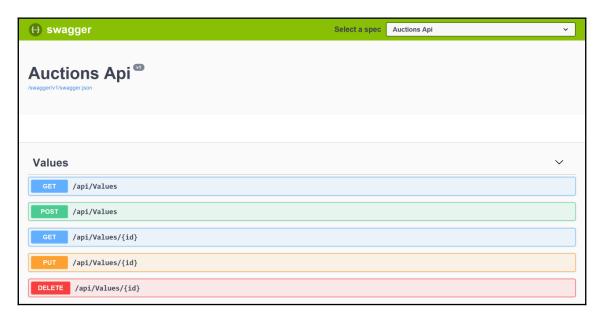
## **Chapter 9: 9. Creating Microservices Azure App Services**







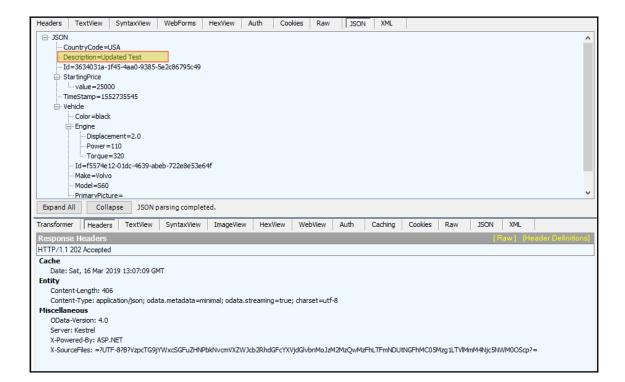


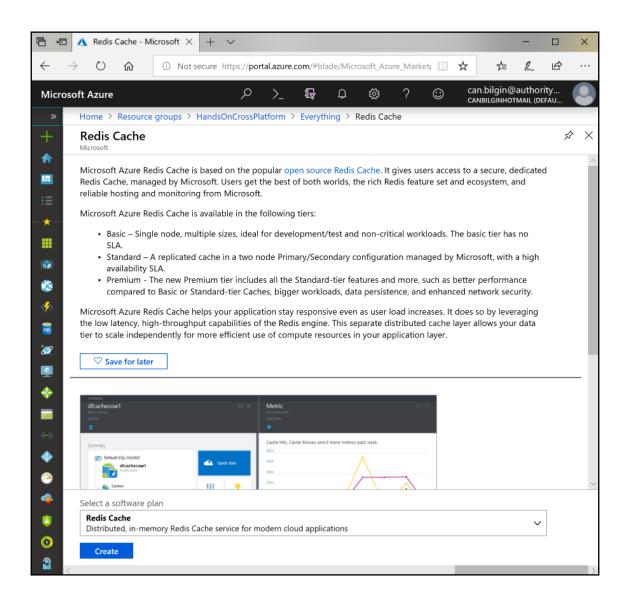


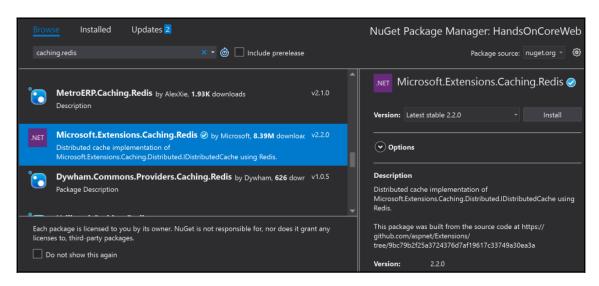
```
\circ
                                                                                                                                  命
                          (i) localhost:20337/odata/$metadata
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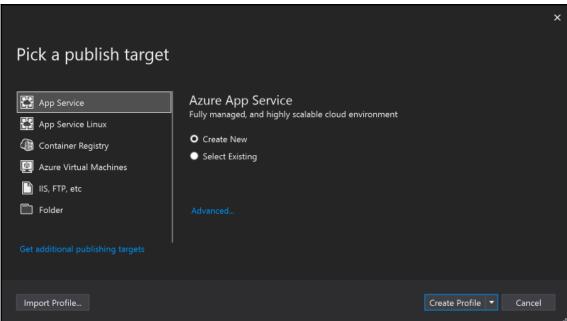
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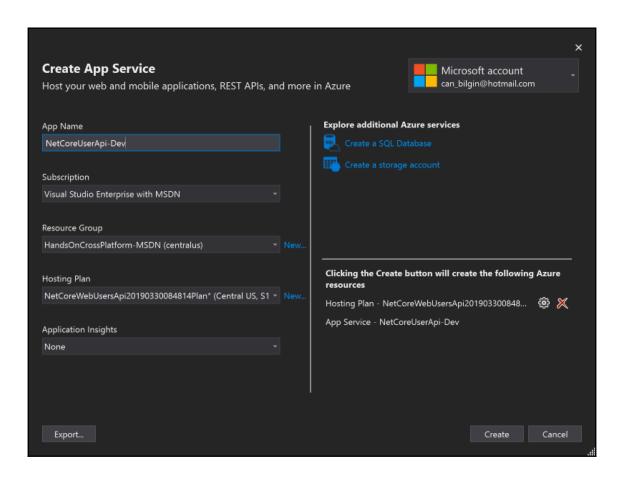
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                </Key>
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                <Property Name="FirstName" Type="Edm.String"/>
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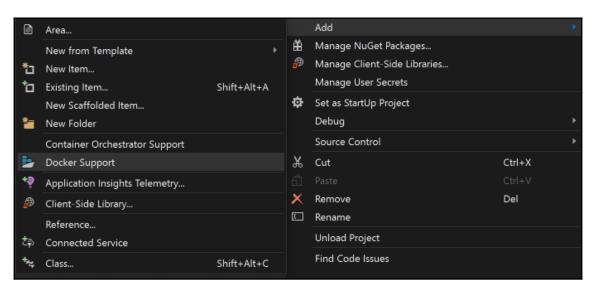


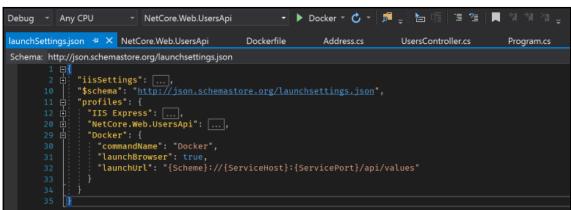


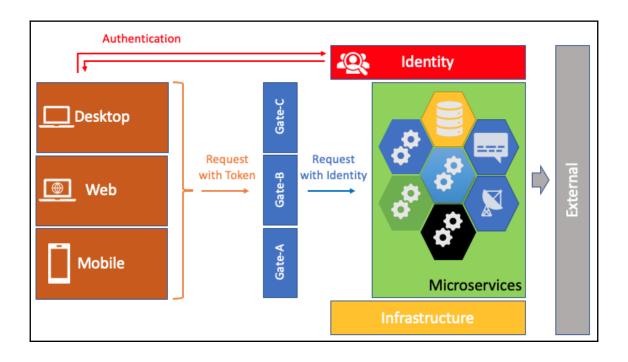


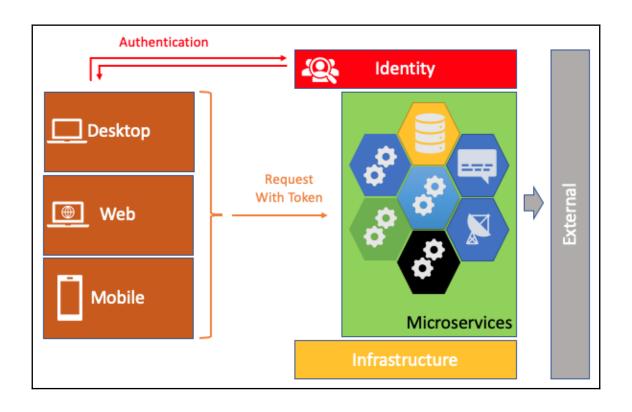


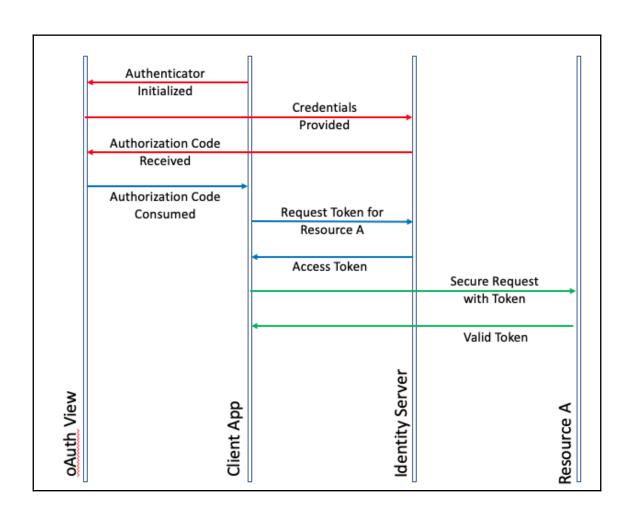


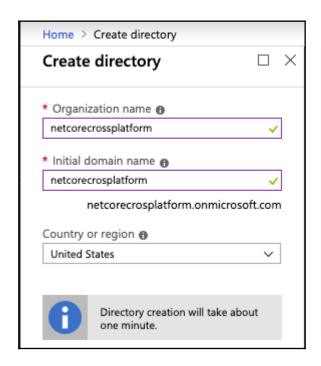


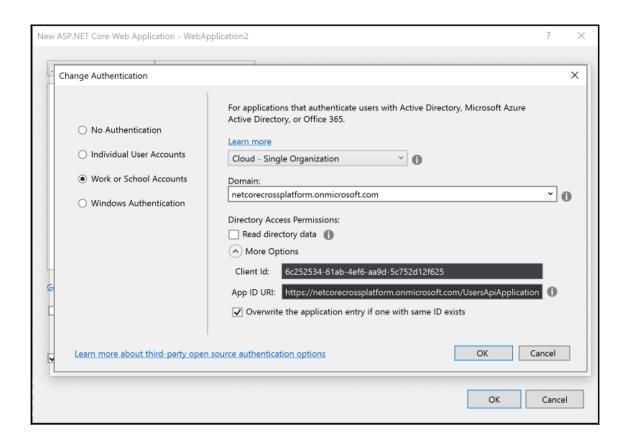




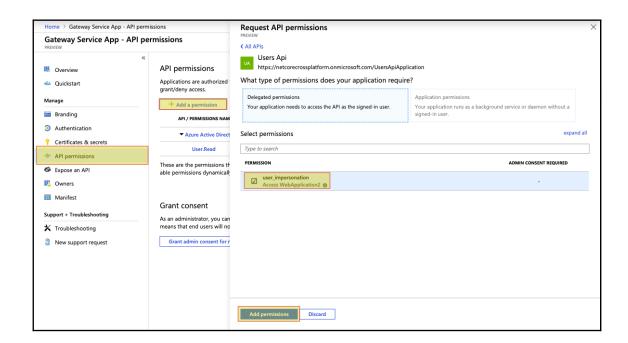








	registrations (Preview) > Register an application
Register an application	
Name	
The user-facing display name for this a	application (this can be changed later).
Xamarin Application	
Supported account types	
Who can use this application or access	this API?
Accounts in this organizational dire	ectory only (netcorecrossplatform)
Accounts in any organizational dire	ectory
Accounts in any organizational dire	ectory and personal Microsoft accounts (e.g. Skype, Xbox, Outlook.com)
Help me choose	
Redirect URI (optional)	
	se to this URI after successfully authenticating the user. Providing this now is out a value is required for most authentication scenarios.
Public client (mobile & desktop)	e.g. myapp://auth
By proceeding, you agree to the Micro	SOTT PIATTORM POLICIES 🗠
Register	



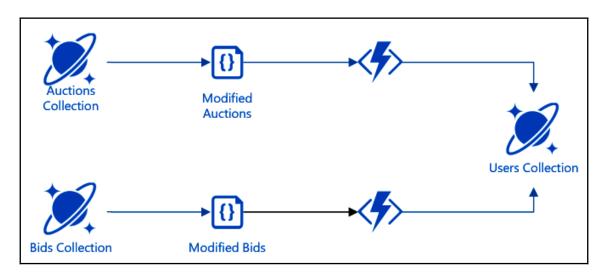
#### **Chapter 10: 10.Using .NET Core for Azure Serverless**

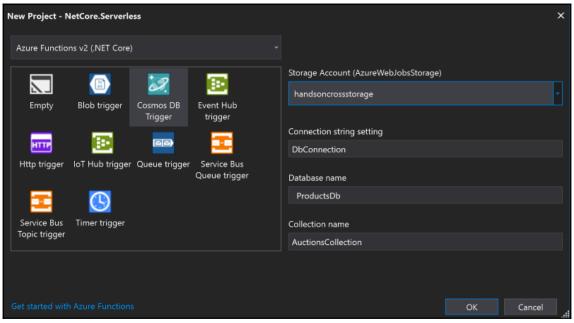
```
myazurefunctions — nano addfunction/_init_.py — 96×33
 GNU nano 2.0.6
                               File: addfunction/__init__.py
import logging
import azure.functions as func
def main(req: func.HttpRequest) -> func.HttpResponse:
    logging.info('Python HTTP trigger function processed a request.')
    reqX = req.params.get('x')
    regY = reg.params.get('y')
    logging.info(f"Received Parameters: {reqX} and {reqY}")
    if reqX and reqY:
       x = int(reqX)
        y = int(reqY)
        result = x + y
        logging.info(f"Result is {result}")
        return func.HttpResponse(f"Addition result is {result}")
    else:
        return func.HttpResponse(
             "Please pass query parameters for 'x' and 'y'",
             status_code=400
  Get Help
                ^0 WriteOut
                                   Read File
                                                   Prev Page
                                                                    Cut Text
                                                                                  ^C Cur Pos
                   Justify
                                                    Next Page
                                                                    UnCut Text
                                                                                    To Spell
                                   Where Is
```

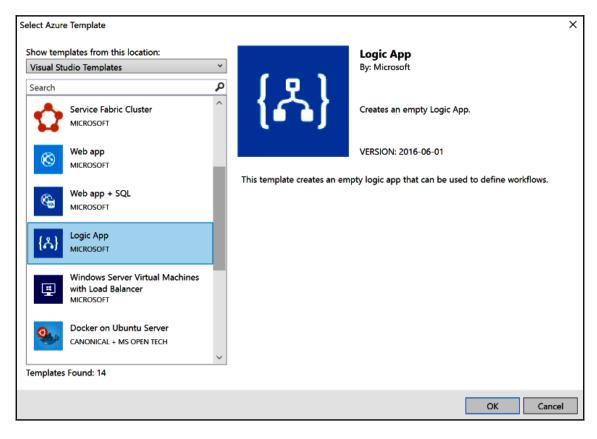
```
0 0 0
                                      myazurefunctions — nano add.cs — 119×42
 GNU nano 2.0.6
                                             File: add.cs
using System;
using System.IO;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.Azure.WebJobs;
using Microsoft.Azure.WebJobs.Extensions.Http;
using Microsoft.AspNetCore.Http;
using Microsoft.Extensions.Logging;
using Newtonsoft.Json;
namespace myazurefunctions
    public static class add
        [FunctionName("add")]
        public static async Task<IActionResult> Run(
            [HttpTrigger(AuthorizationLevel.Function, "get", "post", Route = null)] HttpRequest req,
            ILogger log)
            log.LogInformation("C# HTTP trigger function processed a request.");
            string reqX = req.Query["x"];
            string reqY = req.Query["y"];
            log.LogInformation($"Received Parameters: {reqX} and {reqY}");
            if(!string.IsNullOrEmpty(reqX) && !string.IsNullOrEmpty(reqY))
                var x = int.Parse(reqX);
                var y = int.Parse(reqY);
                var result = x + y;
                log.LogInformation($"Result is {result}");
                return (ActionResult)new OkObjectResult($"Addition result is {result}");
                   ^O WriteOut
^J Justifv
^G Get Help
                                       ^R Read File
                                                          ^Y Prev Page
                                                                              ^K Cut Text
                                                                                                 ^C Cur Pos
   Exit
                      Justify
                                         Where Is
                                                          ^V Next Page
                                                                              ^U UnCut Text
                                                                                                    To Spell
```

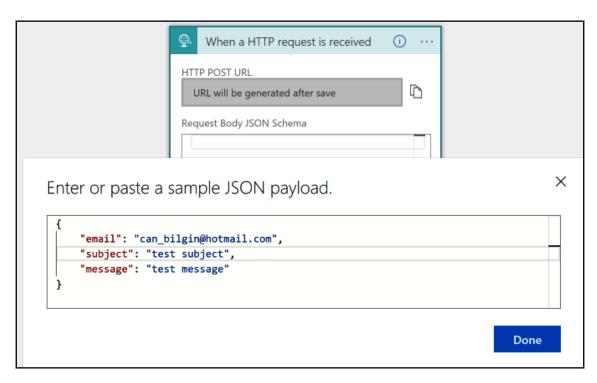
```
\bullet \bullet \bullet
                              function.json ~
                                                                                           .
                                                                                                                       function.json
  "scriptFile": "__init_.py",
                                                                                          "generatedBy": "Microsoft.NET.Sdk.Functions-1.0.24",
                                                                                          "configurationSource": "attributes",
                                                                                           bindings": [
        "authLevel": "function",
"type": "httpTrigger",
"direction": "in",
"name": "req",
"methods": [
                                                                                                "type": "httpTrigger",
"methods": [
                                                                                                   "get",
"post"
           "get",
"post"
                                                                                                "authLevel": "function", "name": "req"
                                                                                         "disabled": false,
"scriptFile": "../bin/myazurefunctions.dll",
"entryPoint": "myazurefunctions.add.Run"
        "type": "http",
"direction": "out",
          'name": "$return"
```

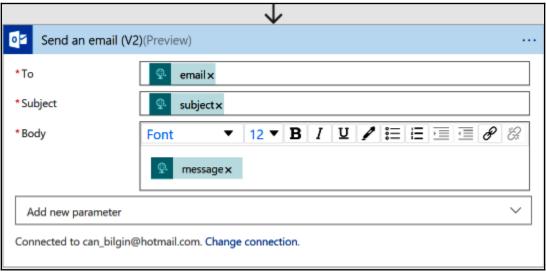
Туре	Trigger	Input	Output
Blob storage	~	~	~
Cosmos DB	~	~	~
Event grid	~		
Event hubs	~		~
Http and Webhooks	~	~	~
Microsoft graph <u>OneDrive</u> files		~	~
Microsoft graph Outlook email			~
Microsoft graph events	~	~	~
Queue storage	~		~
SendGrid			~
Service bus	~		~
SignalR		~	~
Table storage		~	~
Timer	~		
Twilio			~

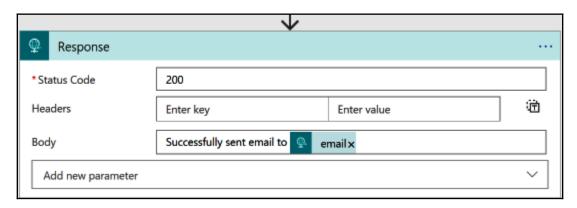


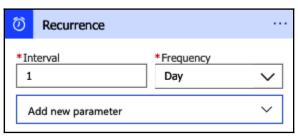


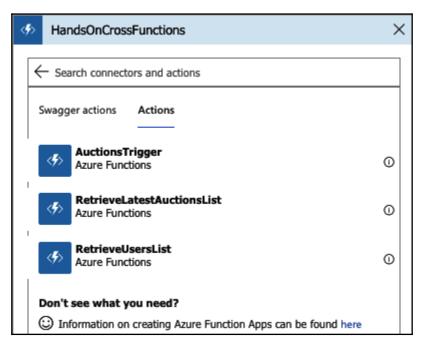


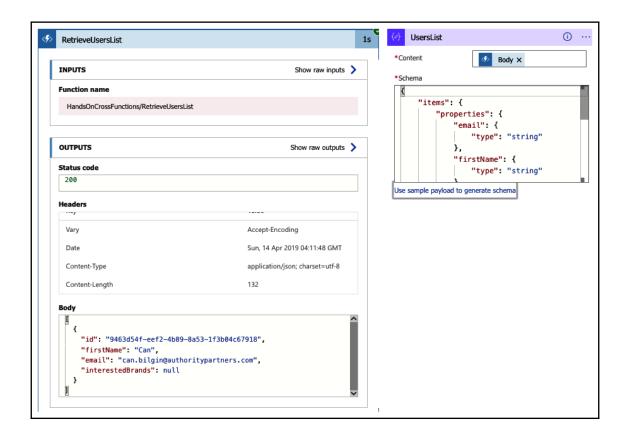


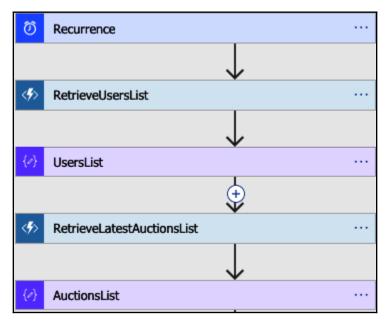




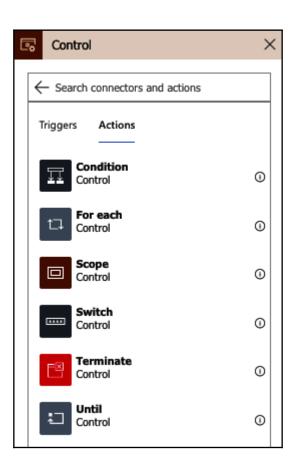


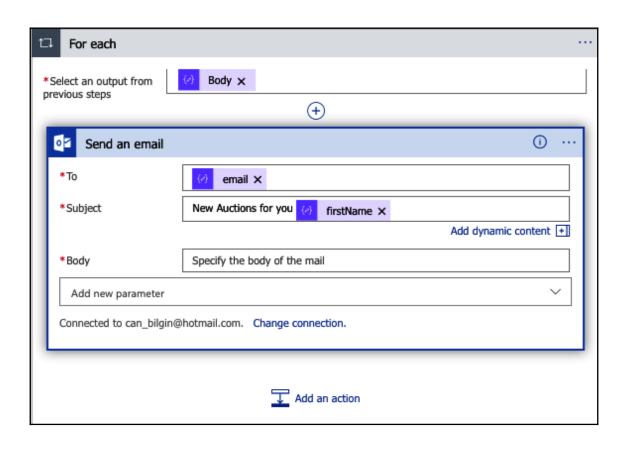


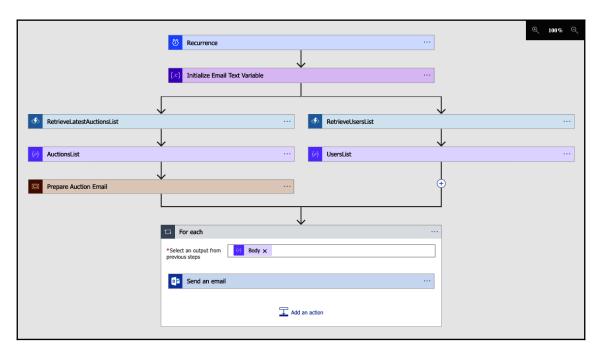


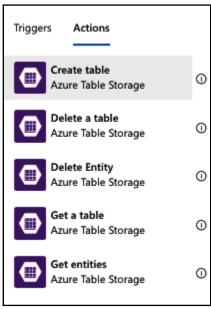




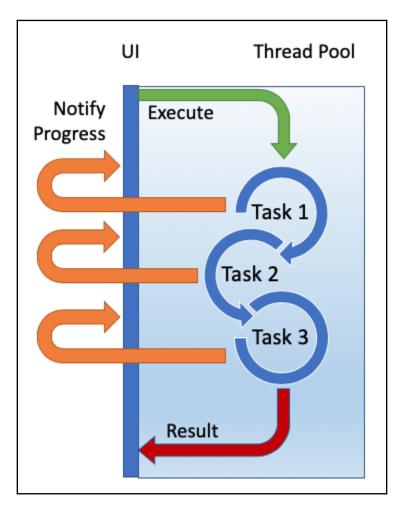






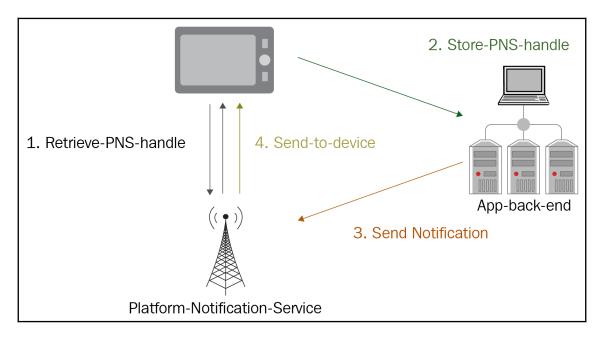


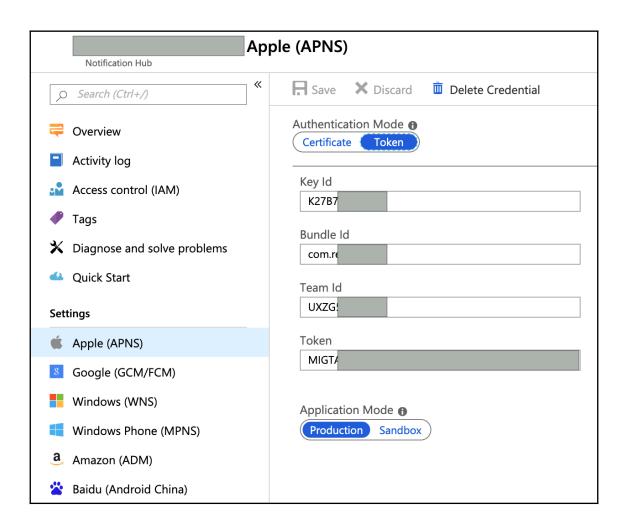
## **Chapter 11: 11.Fluid Applications with Asynchronous Patterns**

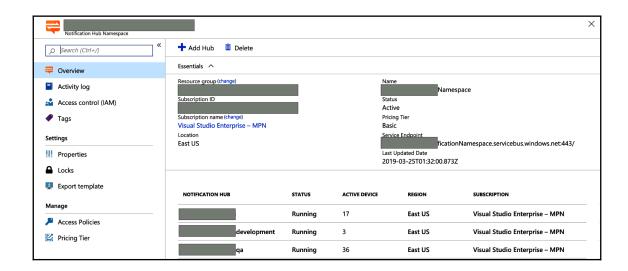


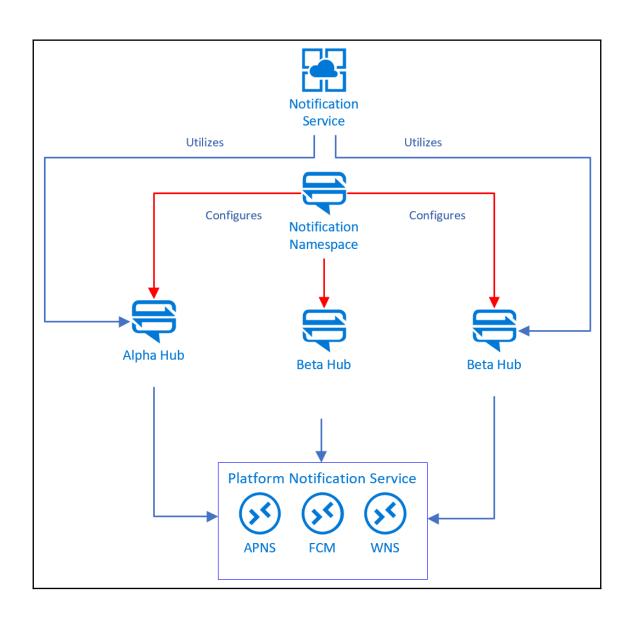
iOS Application*		_
iOS Debug	Ferry	Other
iOS On Demand Resources	Pedestrian	
iOS Bundle Signing		
iOS Run Options		
Application	Modes	
Build	Enable Background Modes	
Build Events	☐ Audio and AirPlay	☐ Acts as Bluetooth LE accessory
Reference Paths	☐ Location updates	✓ Background fetch
Security	☐ Voice over IP	☐ Remote Notifications
	☐ External accessory communication	
	Uses Bluetooth LE accessories	

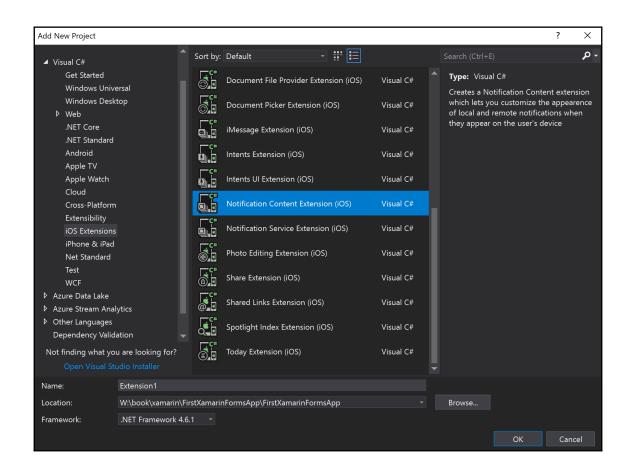
## **Chapter 13: 13.Engaging Users with Notifications and the Graph API**



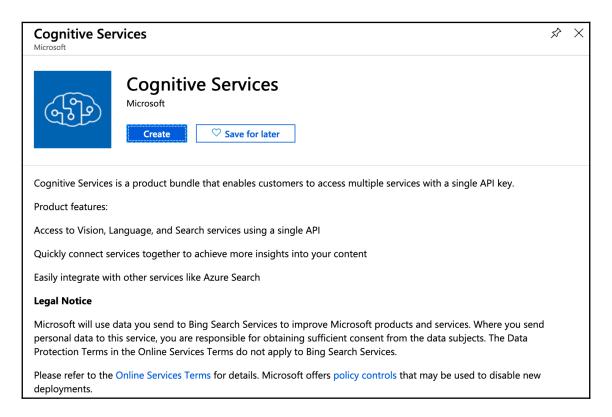


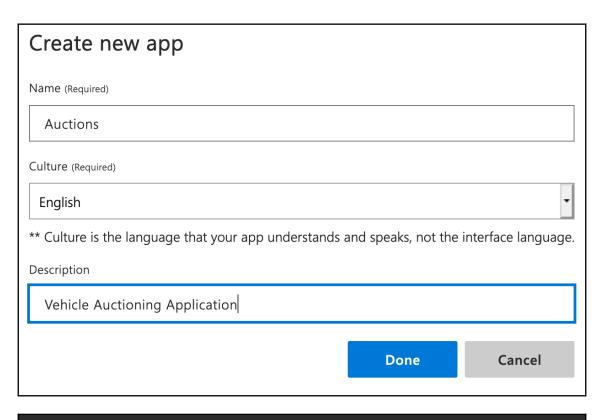




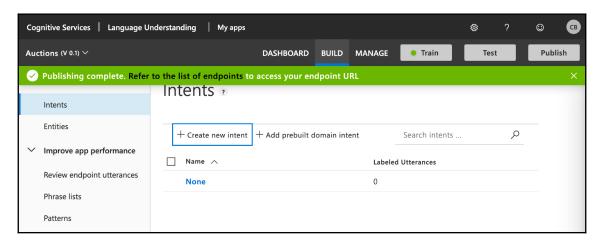


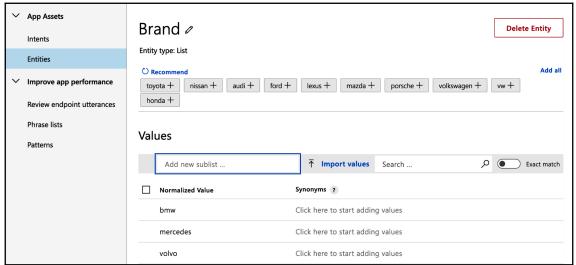
## **Chapter 14: 14.Introducing Cognitive Services**

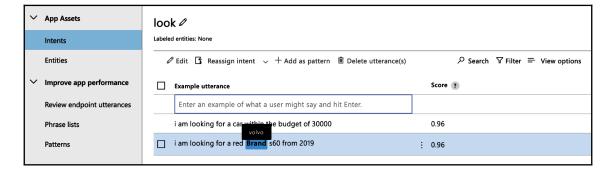


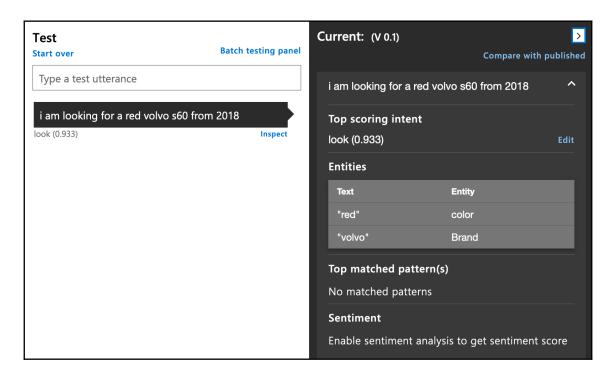










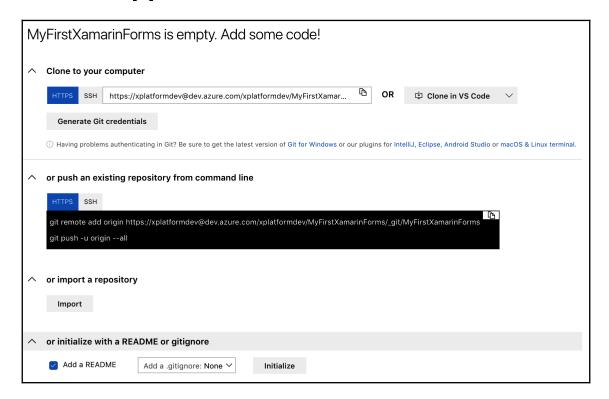


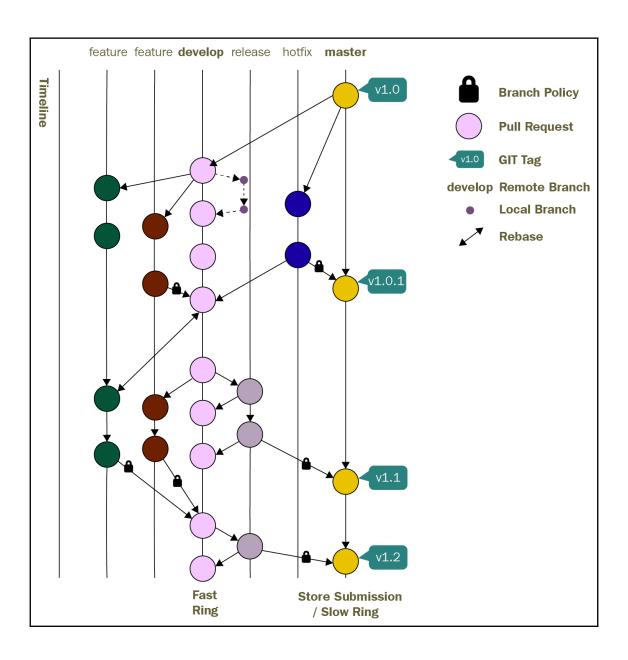


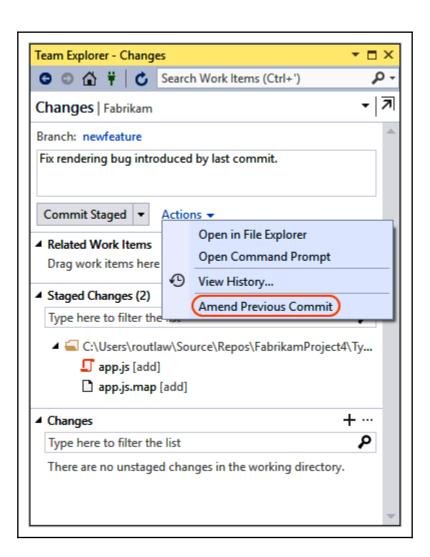
Objects [ { "rectangle": { "x": 542, "y": 115, "w": 1397, "h": 765 }, "object": "car", "parent": { "object": "land vehicle", "parent": { "object": "Vehicle", "confidence": 0.914 }, "confidence": 0.914 }, "confidence": 0.909 } ]

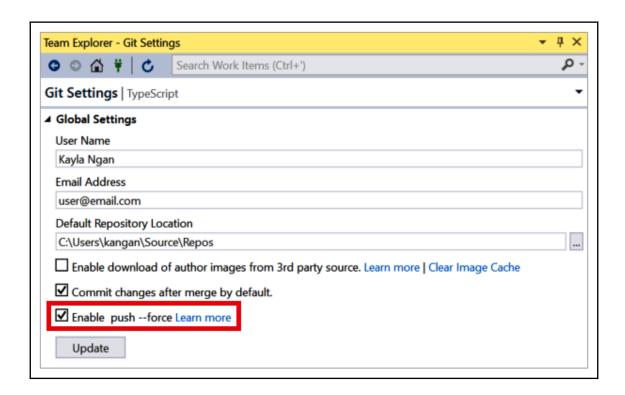
Tags [ { "name": "outdoor", "confidence": 0.998841 }, { "name": "car", "confidence": 0.998357356 }, { "name": "road", "confidence": 0.9949555 }, { "name": "tree", "confidence": 0.9877573 }, { "name": "blue", "confidence": 0.9813743 }, ("name": "grass", "confidence": 0.968876243 }, { "name": "vehicle", "confidence": 0.9148866 }, { "name": "land vehicle", "confidence": 0.8881643 }, { "name": "transport", "confidence": 0.7687348 }, { "name": "full-size car", "confidence": 0.7539416 }, { "name": "wheel", "confidence": 0.708732 }, { "name": "ford", "confidence": 0.608252943 }, { "name": "subaru", "confidence": 0.518539 }, { "name": "mid-size car", "confidence": 0.506383657 } ]

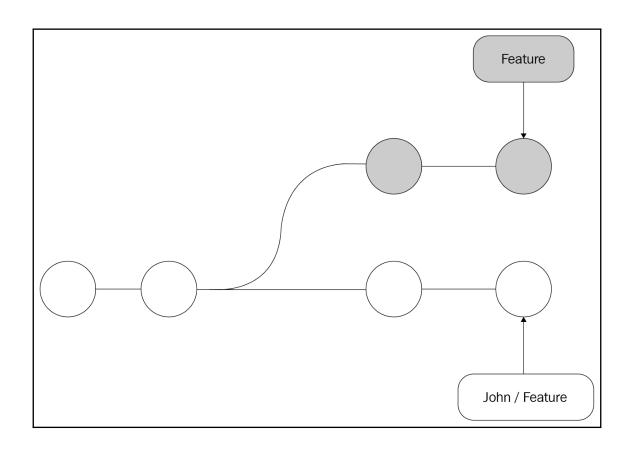
## **Chapter 15: 15.Azure DevOps and Visual Studio App Center**

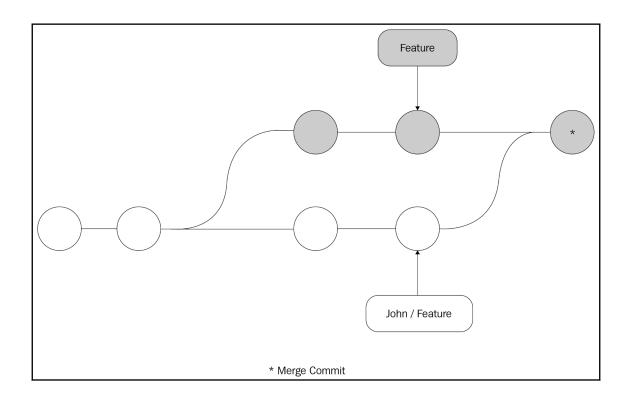


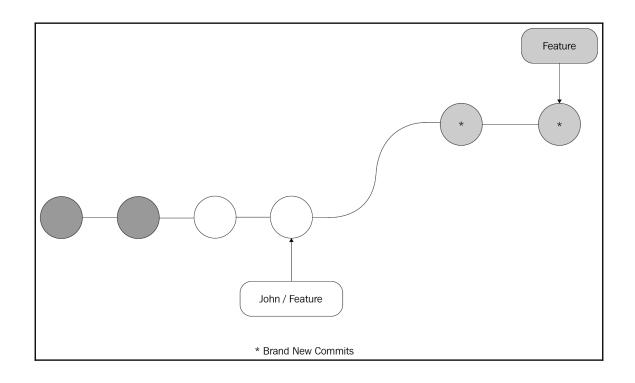


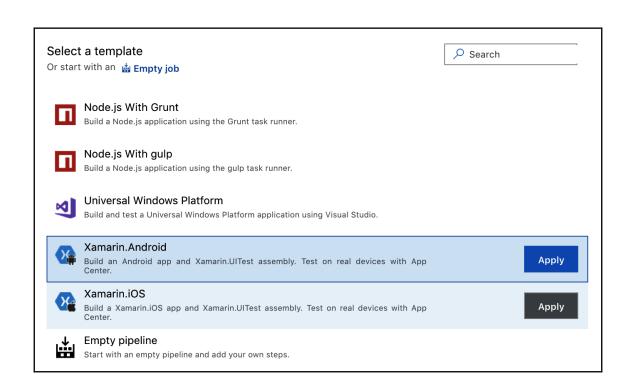


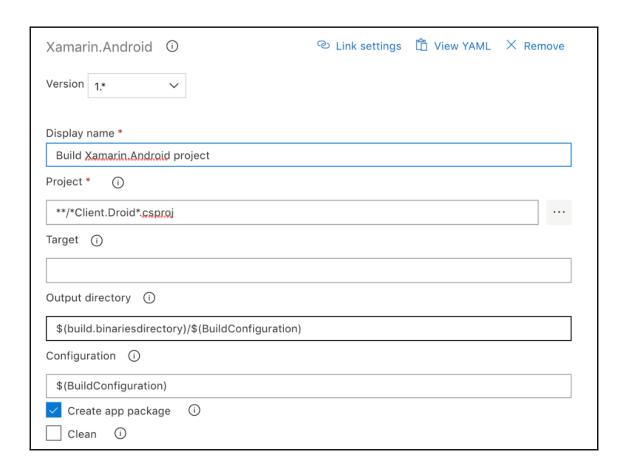


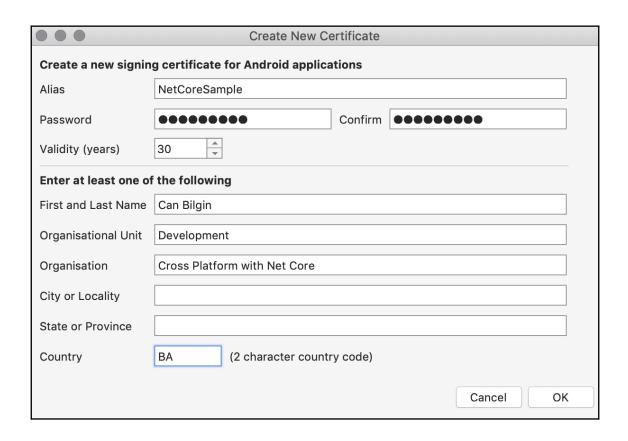


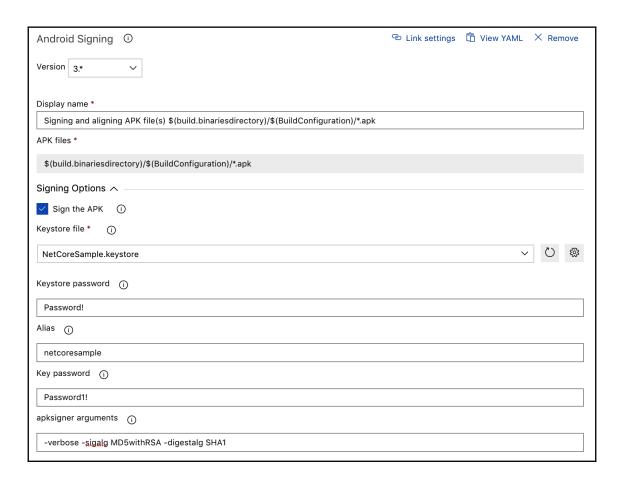


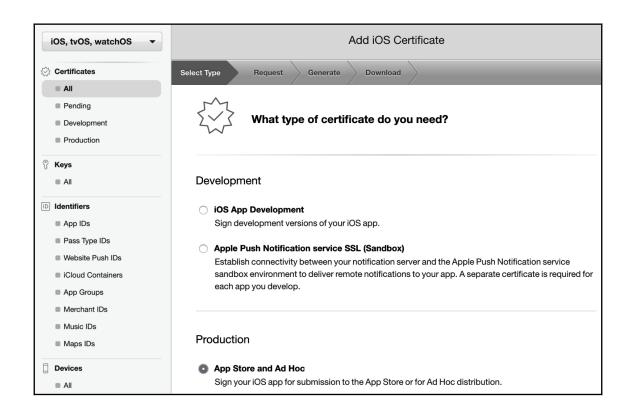


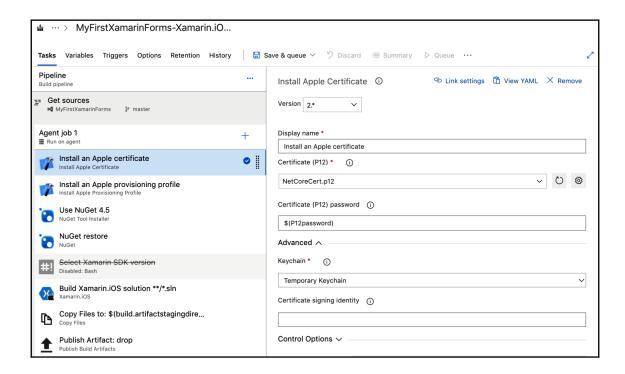




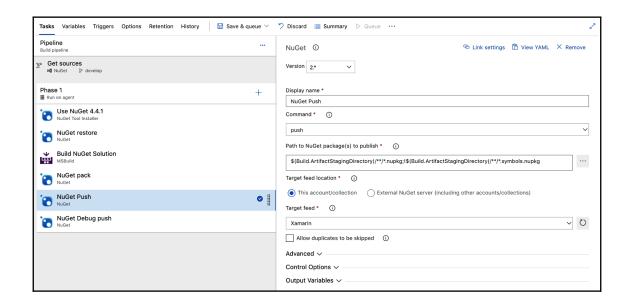


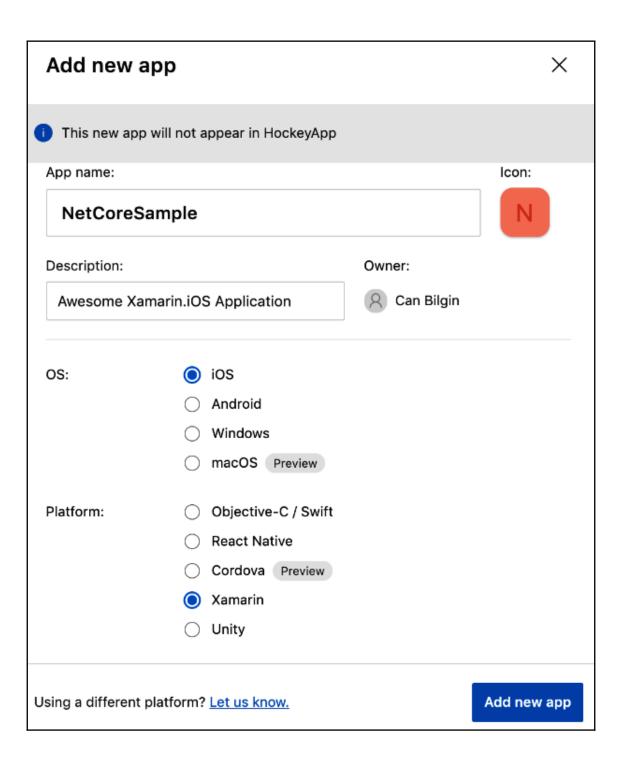


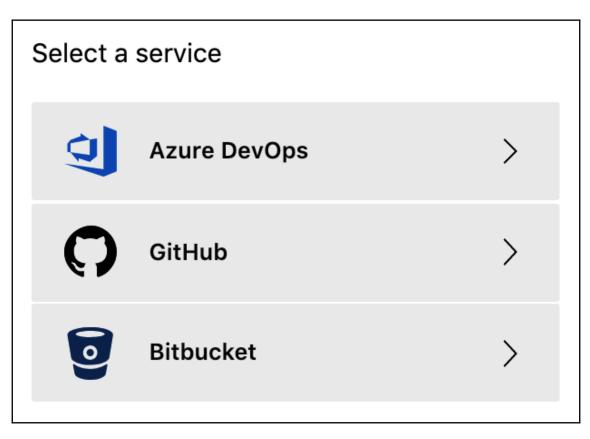


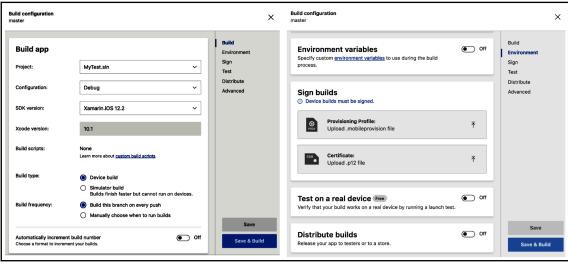


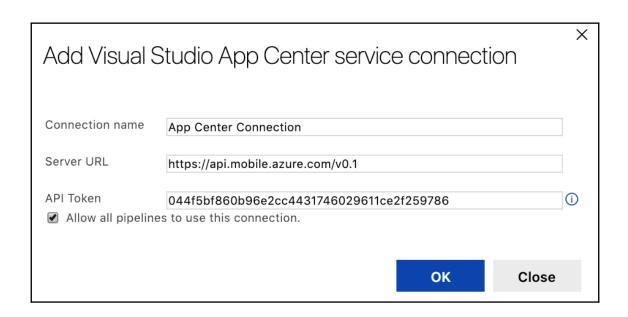
Xamarin.iOS ①	ී Link settings	T View YAML	× Remove
Version 2.*			
Display name *			
Build Xamarin.iOS solution **/*.sln			
Solution *			
**/*.sIn			
Configuration * (i)			
\$(BuildConfiguration)			
Clean (i)			
Create app package (i)			
Build for iOS Simulator (i)			
Signing & Provisioning ^			
Signing identity (i)			
Provisioning profile UUID (			

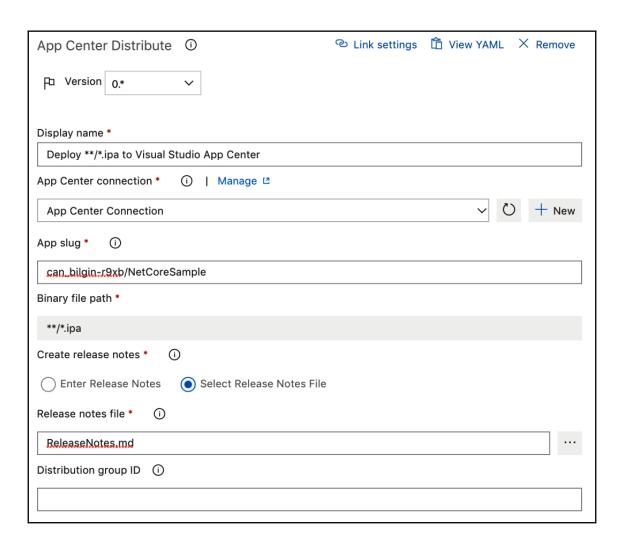


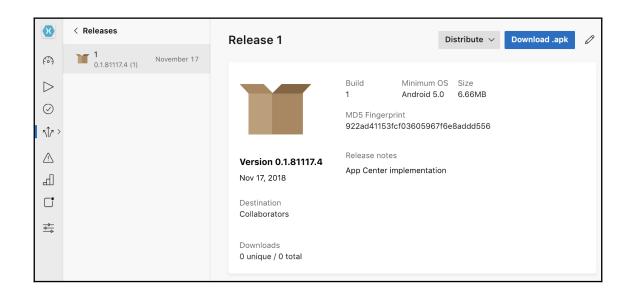


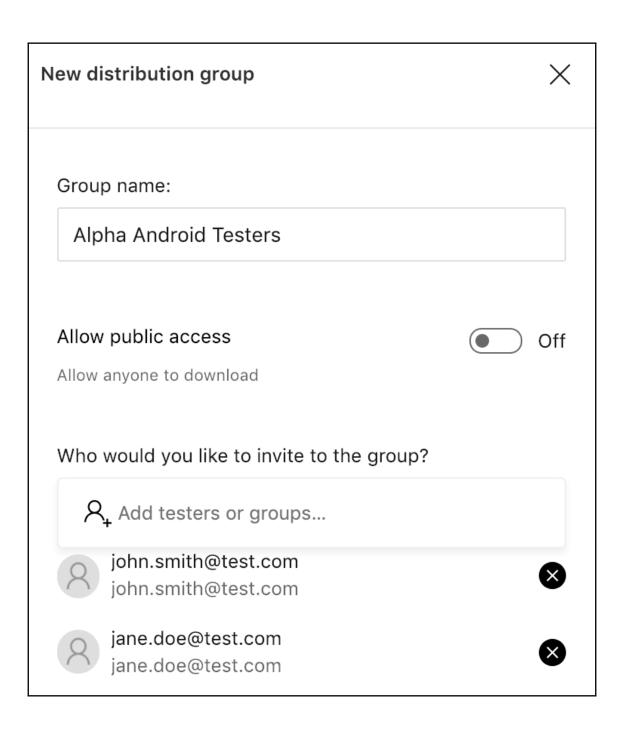


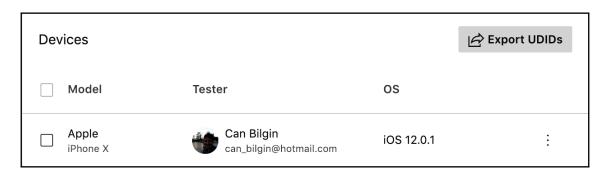


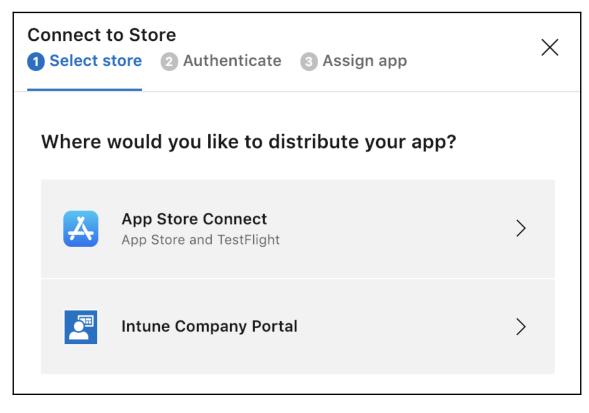


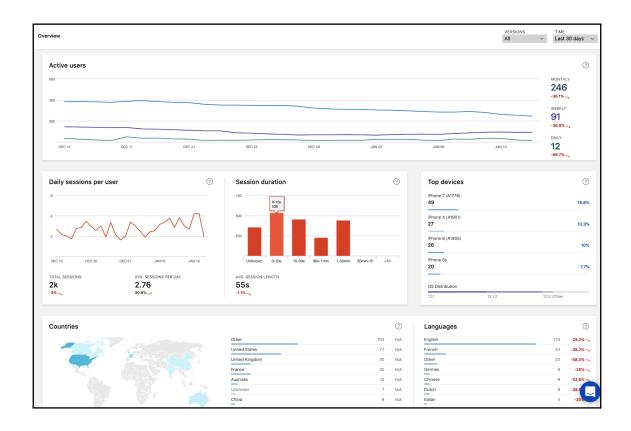




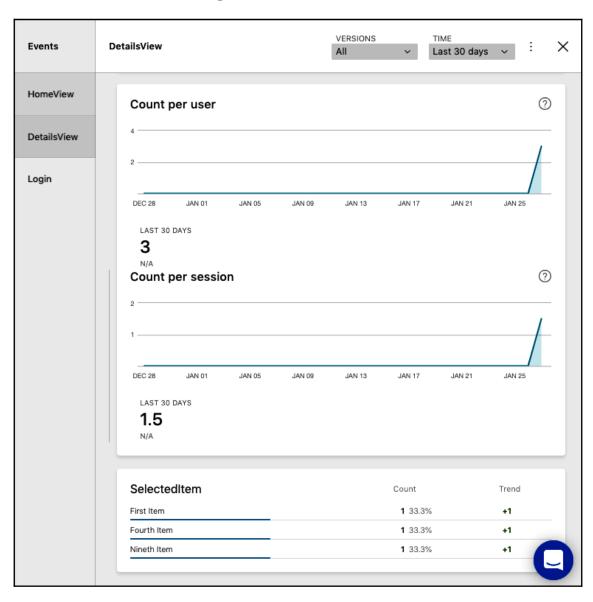


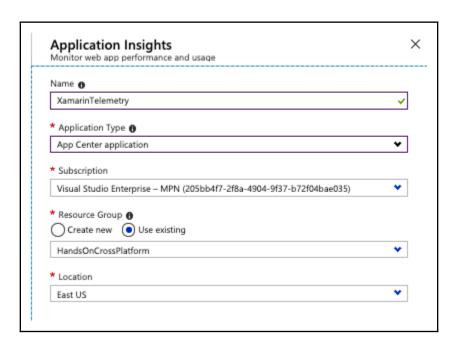




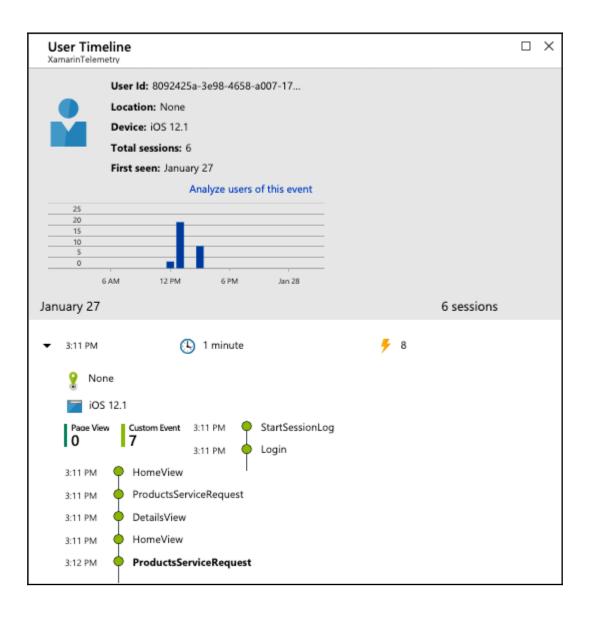


# **Chapter 16: 16.Application Telemetry with Application Insights**











# **Application Insights**

### Register your app with Application Insights

#### Account



#### Subscription

Visual Studio Enterprise - MPN

#### Resource

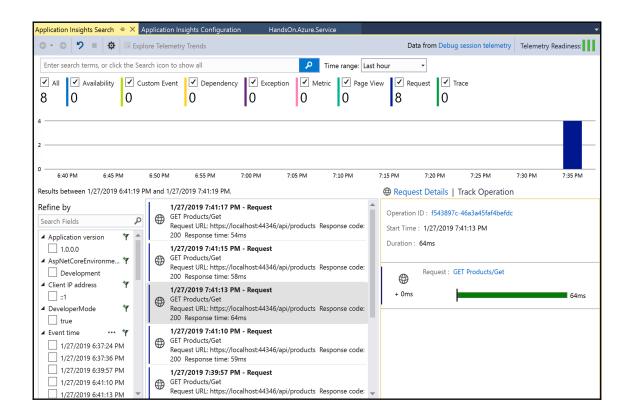
HandsOn.Azure.Service (New resource)

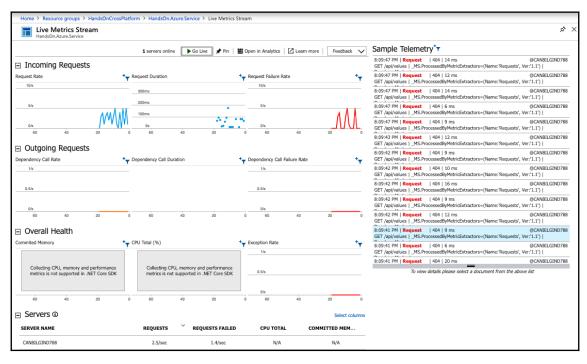
Configure settings...

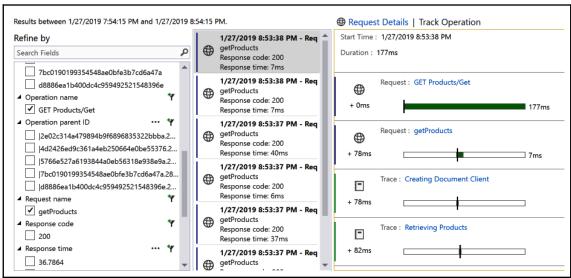
#### Pricing

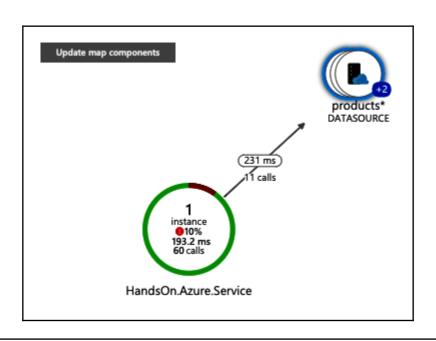
Visit our pricing page for details.

Register









~	2019-01-27T14:11:12.681	ProductsServiceRequest customEvent {"WrapperRuntimeVersion":"11.2.0","WrapperSdkVersion":"1.13.0","In						
	timestamp [UTC]	2019-01-27T14:11:12.681Z						
	name	ProductsServiceRequest						
	itemType	customEvent						
	customDimensions	$ \{ \text{"WrapperRuntimeVersion":"} 11.2.0\text{","WrapperSdkVersion":"} 1.13.0\text{","IngressTimestamp":"} 2019-01-27T14:11:15.761000000000000000000000000000000000000$						
	operation_Id	0f6745b0-fa9c-4995-9a1f-f43b8009d577						
operation_ParentId 0f6745b0-fa9c-4995-9a1f-f43b8009d577								
	session_Id	7b106777-f07c-4312-9b53-5f2930c101db						
	user_Id	8092425a-3e98-4658-a007-176b36504c7a						
	application_Version	1.0						
	client_Type	x86_64						
	client_Model	Apple						
	client_OS	iOS 12.1						
	client_IP	0.0.0.0						
	client_CountryOrRegion	None						
	appId	8f1b0388-ee97-4a76-b972-cedc497720a3						
	appName	XamarinTelemetry						
	iKey	7a584488-0b9e-42ac-8105-34e5f29e36f4						
	sdkVersion	appcenter.ios:1.13.0						
	itemId	6b7430f4-2247-11e9-93ab-ef6cd06591d6						
	itemCount	1						

7	custor	mDimensions	{"WrapperRuntimeVersion": "11.2.0", "WrapperSdkVersion": "1.13.0", "IngressTimestamp":	'2019-01-27T14:11:15.7610
		AppBuild	1.0	
		AppId	f49e730f-32de-449e-a516-5113d6d81b08	
		AppNamespace	com.companyname.FirstXamarinFormsApplication	
		CarrierCountry	None	
		CarrierName	None	
		CountryCode	None	
		EventId	c5129672-16ea-4377-acb2-71b467ec8ce4	
		IngressTimestamp	2019-01-27T14:11:15.7610000Z	
		Locale	en_TR	
		MessageType	EventLog	
		OsApiLevel	None	
		OsBuild	18C54	
		OsName	iOS	
		OsVersion	12.1	
	>	Properties	{"elapsed":"659.583"}	
		ScreenSize	2436x1125	
		SdkName	appcenter.ios	
		SdkVersion	1.13.0	
		TimeZoneOffset	PT1H	
		UserId		

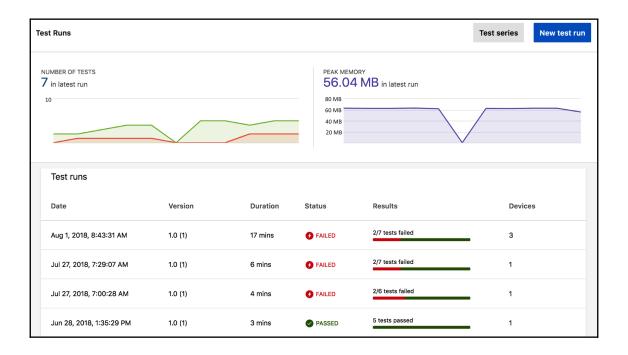
	Oper	atingSystem V	Duration	√ timestamp [UTC]	ν
~	iOS		633.348	2019-01-27T15:23:21.5	93
		OperatingSystem	iOS		
		Duration	633.348		
		timestamp [UTC]	2019-01	-27T15:23:21.593Z	
>	iOS		633.311	2019-01-27T15:23:18.1	.44
>	iOS		640.723	2019-01-27T15:23:12.9	33
>	iOS		633.312	2019-01-27T14:12:04.0	82
>	iOS		659,583	2019-01-27T14:11:12.6	81

### **Chapter 17: 17. Automated Testing**

▶ ★ ItemViewModel	5 <mark>0</mark> %	22/44
▶ <b>%</b> Product	67%	4/12
▲ * ListItemViewModel	80%	7/35
NavigateToltem(ItemViewModel)	0%	2/2
▶ S LoadProducts()	71%	4/14
ListItemViewModel(IApiClient)	91%	1/11
▶ III ItemTapped	100%	0/1
▶ III Items	100%	0/7
🚄 🤏 BaseBindableObject	100%	0/3
SendPropertyChanged(string)	100%	0/3
PropertyChanged		0/0

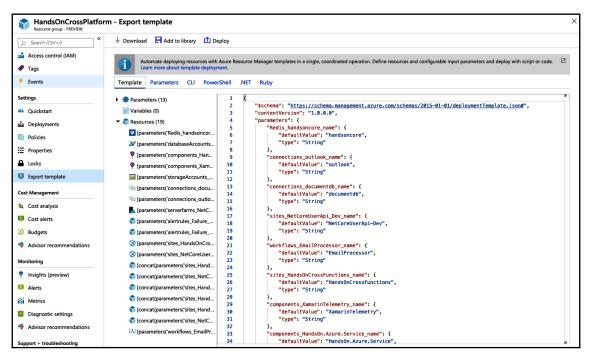
W:\book\xamarin\DesignChapter\FirstXamarinFormsApplication.Client.Tests>dotnet test --collect "Code Cov W:\book\xamarin\DesignChapter\FirstXamarinFormsApplication.Client.Tests\FirstXamarinFormsApplication.Client.Tests.csproj : warning NU1603: Castle.Core 4.0.0 depends on System.ComponentModel.TypeConverter (>= 4.0.1) but System.ComponentModel .TypeConverter 4.0.1 was not found. An approximate best match of System.ComponentModel.TypeConverter 4.1.0 was resolved. Build started, please wait... W:\book\xamarin\DesignChapter\FirstXamarinFormsApplication.Client.Tests\FirstXamarinFormsApplication.Client.Tests.csproj : warning NU1603: Castle.Core 4.0.0 depends on System.ComponentModel.TypeConverter (>= 4.0.1) but System.ComponentModel .TypeConverter 4.0.1 was not found. An approximate best match of System.ComponentModel.TypeConverter 4.1.0 was resolved. Build completed. Test run for W:\book\xamarin\DesignChapter\FirstXamarinFormsApplication.Client.Tests\bin\Debug\netcoreapp2.1\FirstXamari nFormsApplication.Client.Tests.dll(.NETCoreApp,Version=v2.1) Microsoft (R) Test Execution Command Line Tool Version 15.8.0 Copyright (c) Microsoft Corporation. All rights reserved. Starting test execution, please wait... W:\book\xamarin\DesignChapter\FirstXamarinFormsApplication.Client.Tests\TestResults\e7bf0a95-5564-41c6-b919-9967f32397 otal tests: 3. Passed: 3. Failed: 0. Skipped: 0. Test execution time: 3.8336 Seconds

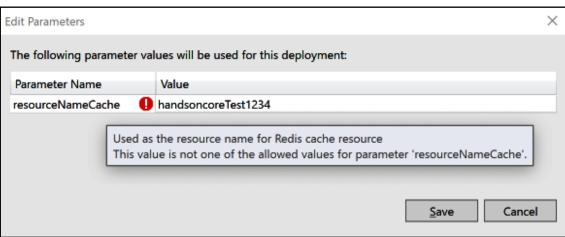
	0	0.00%	19	100.00%
	0	0.00%	2	100.00%
↓ StittemViewModel. <loadproducts>d</loadproducts>	3	15.79%	16	84.21%
ListItemViewModel. <navigatetoitem></navigatetoitem>	2	16.67%	10	83.33%



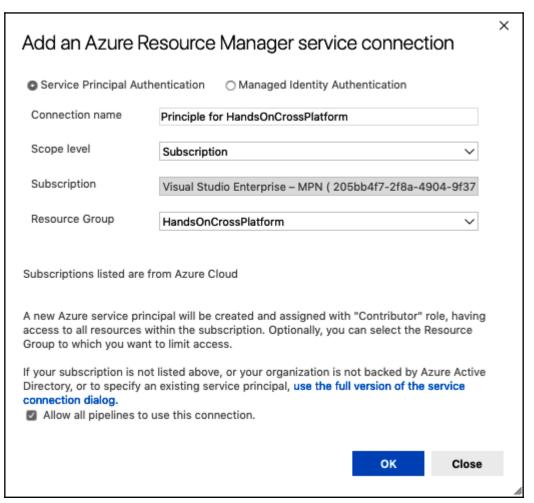
# **Chapter 18: 18.Deploying Azure Modules**

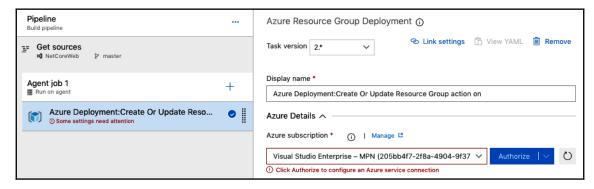
Filter by name All types  All locations  No grouping							
11 items Show hidden types 🚯		1					
NAME ↑↓	TYPE ↑↓	LOCATION 1					
documentdb	API Connection	North Europe	•••				
outlook	API Connection	North Central US	•••				
☐ ♦ HandsOnCrossFunctions	App Service	Central US	•••				
NetCoreUserApi-Dev	App Service	Central US	•••				
NetCoreWebUsersApi20190330084814Plan	App Service plan	Central US	•••				
HandsOn.Azure.Service	Application Insights	East US	•••				
XamarinTelemetry	Application Insights	East US	•••				
handsoncore	Azure Cache for Redis	Central US	•••				
handsoncrossplatform	Azure Cosmos DB account	West Europe	•••				
☐ {♣} EmailProcessor	Logic app	North Europe	•••				
handsoncrossstorage	Storage account	North Europe	•••				

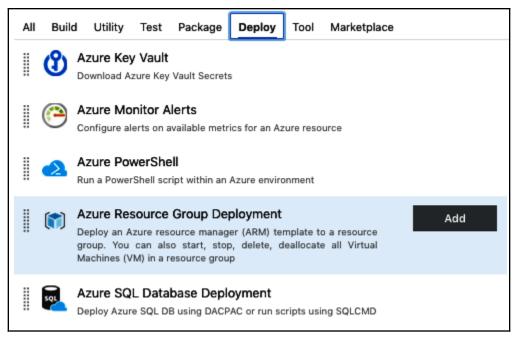


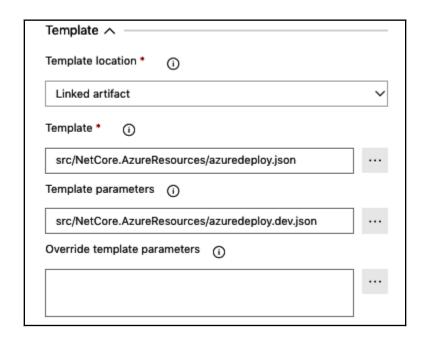


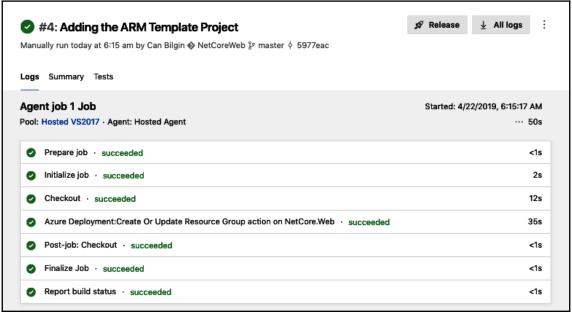


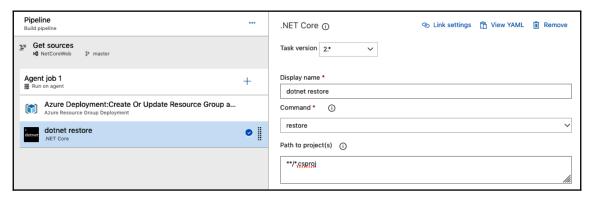


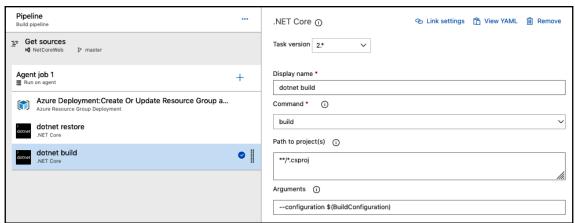


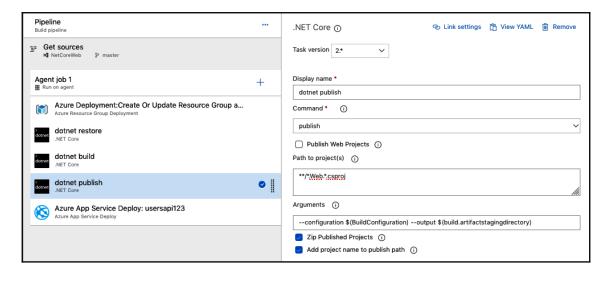


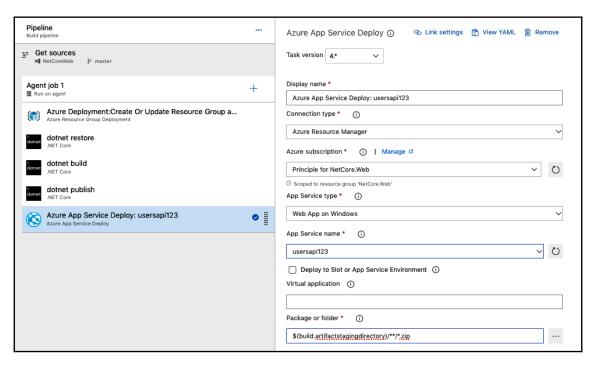


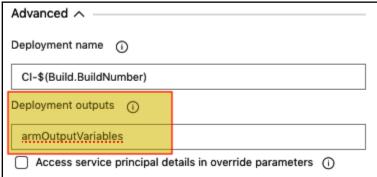




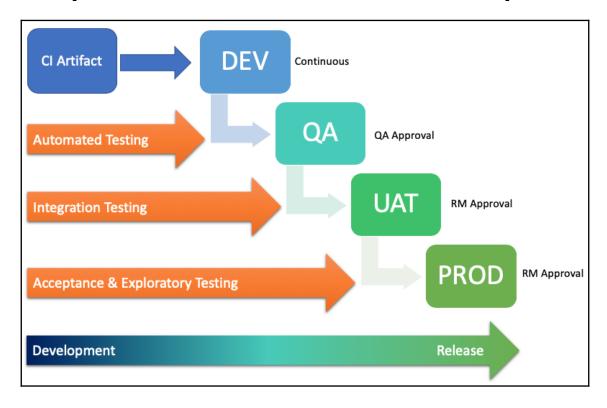




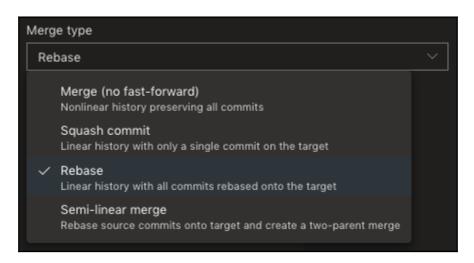


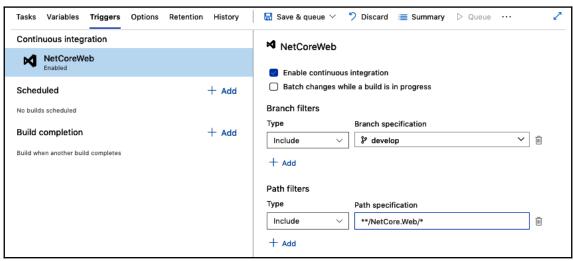


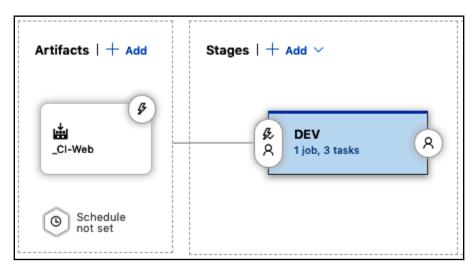
## **Chapter 19: 19.CI/CD with Azure DevOps**

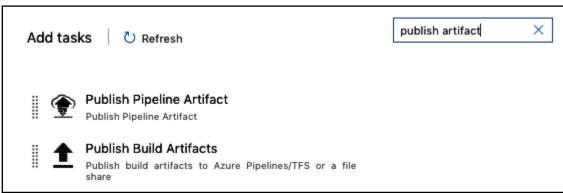


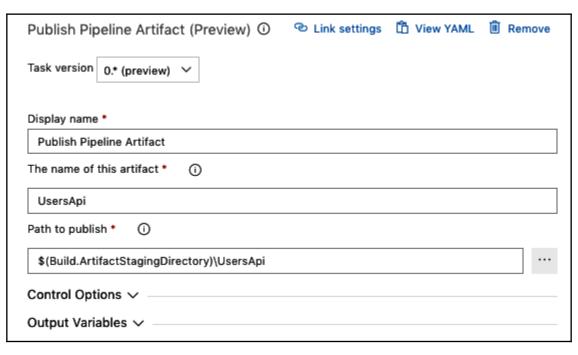
<u>~</u>	Require a minimum number of reviewers  Require approval from a specified number of reviewers on pull requests.								
	Minimum number of reviewer	s 2							
	Allow users to approve t	heir own changes.							
	Allow completion even if some reviewers vote "Waiting" or "Reject".								
	Reset code reviewer votes when there are new changes.								
<u></u>	Check for linked work items  Encourage traceability by checking for linked work items on pull requests.								
	Policy requirement								
	Required  Block pull requests from being completed unless they have at least one linked work item.								
	Optional Warn if there are no linked w	ork items, but allow p	pull requests to be completed						
	Check for comment resolution Check to see that all comments have been resolved on pull requests.								
	Limit merge types Control branch history by limiting the available types of merge when pull requests are completed.								
	Build validation Validate code by pre-merging and building pull request changes								
	+ Add build policy								
В	uild pipeline	Requirement	Path filter	Expiration	Trigger				
₫	Validation Tests	Required	No filter	Strict expiration	Automatic	Enabled			
	Require approval from additional services Require other services to post successful status to complete pull requests. Learn more  + Add status policy								

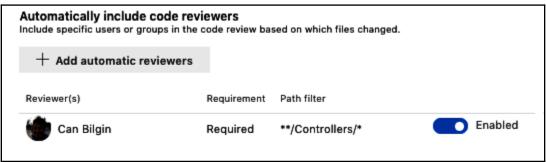




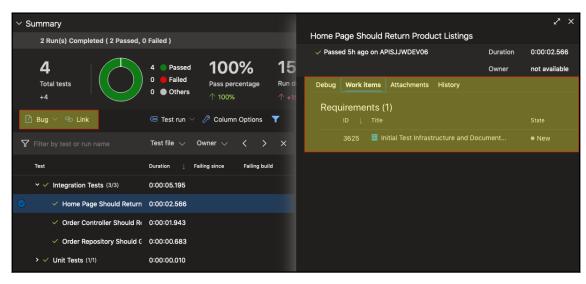


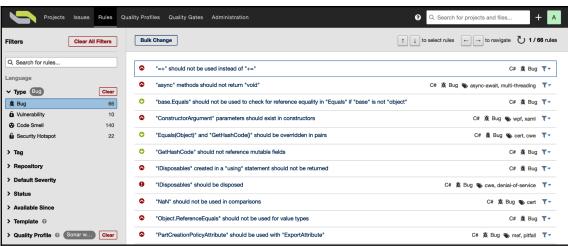






Check for comment resolution Check to see that all comments have been resolved on pull requests.





Metric ②	Operator	Error
Coverage on New Code	is less than	80.0%
Duplicated Lines on New Code (%)	is greater than	3.0%
Maintainability Rating on New Code	is worse than	Α
Reliability Rating on New Code	is worse than	Α
Security Rating on New Code	is worse than	Α

