

Debugging Your Genesys Framework App

A Cross-Platform Framework Quick-Start

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See on
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Free on
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An attempt has been made to state all allowable values where applicable throughout this document. Any values or parameters used beyond those stated may have unpredictable results.

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Before you begin: Pre-Requisites

Before beginning, check the pre-requisites. Don't have the pre-req? Click the link below to get it Free.

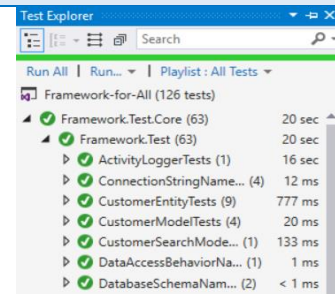
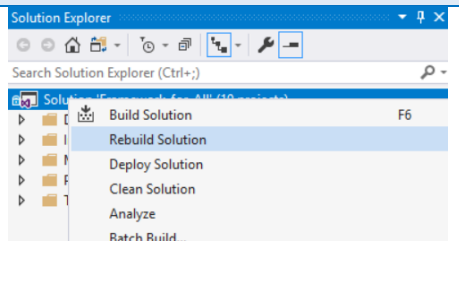
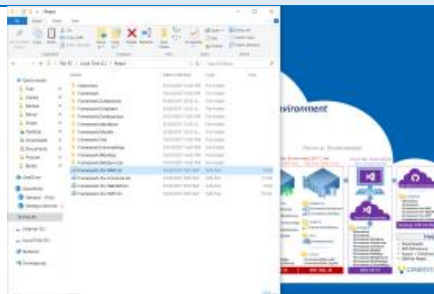
<p style="text-align: center;">①</p> <h3 style="text-align: center;">Framework Code</h3>	<p style="text-align: center;">②</p> <h3 style="text-align: center;">Visual Studio</h3>	<p style="text-align: center;">③</p> <h3 style="text-align: center;">Cloud Dev Environment (Optional)</h3>
<p>Genesys Framework source code is downloaded or available, including...</p> <ul style="list-style-type: none"> ✓ Framework.WebApp: MVC Web App ✓ Framework.Models: x-Platform Models ✓ Framework.DataAccess: EF Data Objects ✓ Framework.Database: SSDT T-SQL DB 	<p>Visual Studio 2017 is installed with the following workloads...</p> <ul style="list-style-type: none"> ✓ ASP.NET and web development ✓ .NET Core cross-platform development ✓ Data storage and processing ✓ .NET Desktop development ✓ Mobile development with .NET ✓ Unified Windows Platform development 	<p>The Genesys Cloud Dev Environment includes all Azure infrastructure + code for a working, full-stack, cross-platform Cloud App in MVC, Web API, WPF or Universal. The Cloud Dev Environment includes...</p> <ul style="list-style-type: none"> ✓ 1 IIS Web Server Azure Virtual Machine ✓ 1 SQL Server Azure Virtual Machine ✓ 1 Visual Studio Azure Virtual Machine ✓ Genesys Framework Source Code ✓ Framework Apps + DB already-running
<p>Don't have it? Get Genesys Framework HERE</p>	<p>Don't have it? Get Visual Studio HERE</p>	<p>Not on Azure or no CDE? Start HERE</p>

1: Pre-requisites for this procedure

Running the Framework.Test Integration Tests

All products contain *Framework.Test*, an integration test project that tests your objects and support classes. To run all tests in the solution:

<p style="text-align: center;">①</p> <h3 style="text-align: center;">Open your Solution <i>i.e. Framework-for-MVC.sln</i></h3>	<p style="text-align: center;">②</p> <h3 style="text-align: center;">Rebuild All on the Solution</h3>	<p style="text-align: center;">③</p> <h3 style="text-align: center;">Click Run All in the Test Explorer Window</h3>
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1. Open your solution, i.e. *Framework-for-MVC.sln* Visual Studio solution file
2. Right-click the solution and click *Rebuild Solution*
3. Open the *Test Explorer* window
- *Test -> Windows -> Test Explorer*
4. Click *Run All* to run all tests
- All tests should execute successfully
Hint for LocalDB: Check SSMS Server (*LocalDb*)\MSSQLLocalDB if *FrameworkData_Primary.mdf* is locked.

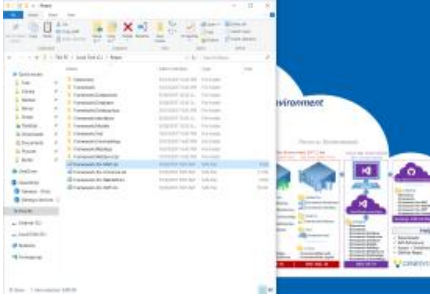
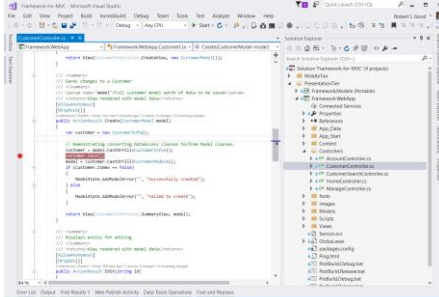
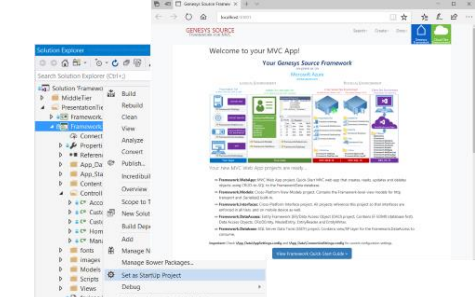

2: Running Framework.Test

Debugging the Genesys Framework

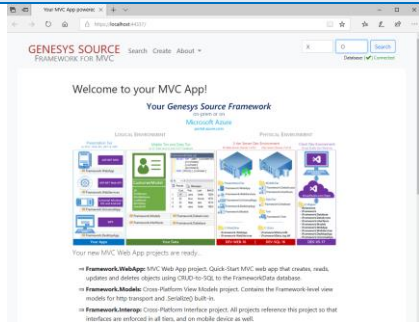
The *Genesys Framework* contains App and Services projects that host your application. These Apps can be debugged using standard .NET debugging techniques in Visual Studio Community (or greater.)

Debugging Framework.WebApp (MVC) and Framework.WebServices (Web API)

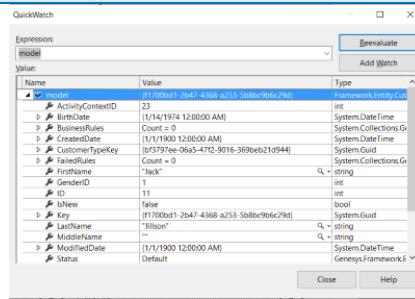
To debug your Framework for MVC and Framework for Web API app, follow the procedures below:

<p style="text-align: center;">1</p> <p style="text-align: center;">Open the Solution i.e. <i>Framework-for-MVC.sln</i></p>	<p style="text-align: center;">2</p> <p style="text-align: center;">Set Breakpoint in <i>CustomerSearchController.cs</i></p>	<p style="text-align: center;">3</p> <p style="text-align: center;">Set as StartUp Project and Press <i>F5</i> to Run</p>
		
<ol style="list-style-type: none"> 5. Open the <i>Framework-for-MVC.sln</i> Visual Studio solution file - Default: C:\Source\Framework-for-MVC.sln 6. Navigate to and open <i>Framework.WebApp\Controllers\CustomerController</i> 	<ol style="list-style-type: none"> 7. Set a breakpoint in the Search() method <pre>public ActionResult Search(CustomerModel data) { var model = new CustomerSearchModel(); var searchResults = CustomerInfo.GetByAny(data).Take(25); }</pre> 	<ol style="list-style-type: none"> 8. Right-click <i>Framework.WebApp</i> or <i>Framework.WebServices</i> project -> click <i>Set as StartUp Project</i> 9. Press <i>F5</i> or  to run the StartUp project - WebApp Url: http://localhost:30001/ - WebServices Url: http://localhost:30002/ 10. <i>Home/Index.cshhtml</i> should display
<p style="text-align: center;">4</p>	<p style="text-align: center;">5</p>	<p style="text-align: center;">6</p>

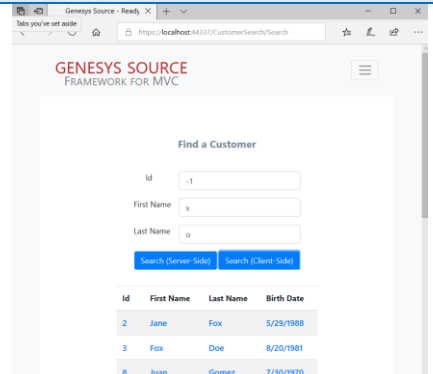
Enter First (x) and Last (o)
-> Click Search



Step-in to CustomerInfo.cs



See Customer search data before returning to View



11. Search from the home header
12. Enter a single letter (x) into First Name and a single letter (o) into Last Name
13. Click Search to hit breakpoint

14. Press F10 to step-over to `if (searchResults.Any())`
15. Select `searchResults`
16. Press SHIFT+F9 to see the Quick Watch window

17. Continue execution by pressing F5 to see the search complete

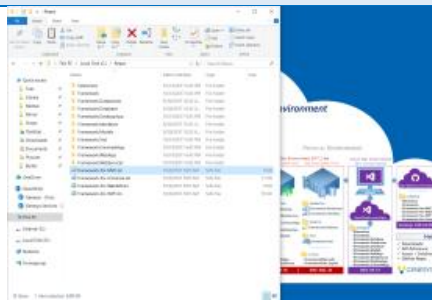
3: Debugging Framework for MVC and Web API

Debugging Framework.UniversalApp (UWP) and Framework.DesktopApp (WPF)

To debug your Framework for Universal and Framework for WPF app, follow the procedures below:

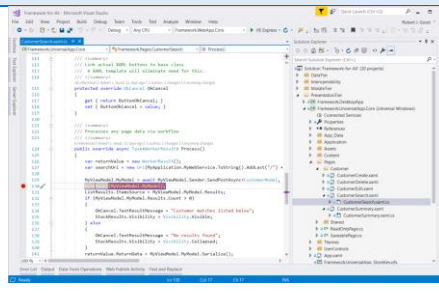
1

Open the Solution
i.e. Framework-for-Uwp.sln



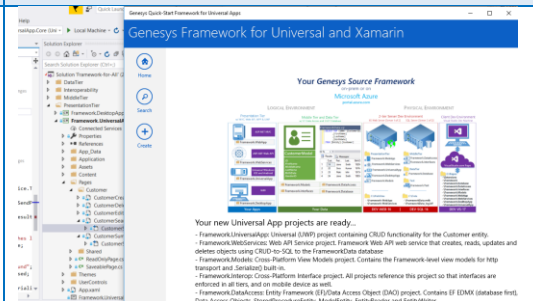
2

Set Breakpoint in
CustomerSearch.xaml.cs



3

Set as StartUp Project
and Press F5 to Run



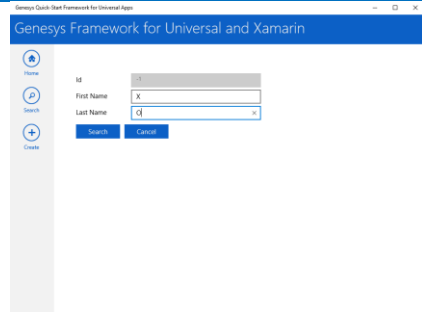
1. Open the *Framework-for-Uwp.sln* Visual Studio solution file
2. Navigate to and open Customer Search page:
\\Framework.UniversalApp.Core\Pages\Customer\CustomerSearch.xaml.cs

3. Set a breakpoint in the **Process()** method
`public override async Task<WorkerResult> Process()`
`{`
`...`
`BindModel(MyViewMode1.MyModel);`
`}`

4. Right-click *Framework.UniversalApp* or *Framework.DesktopApp* project -> click *Set as StartUp Project*
5. Right-click solution -> *Configuration Manager* -> Check *Build and Deploy*
6. Press F5 or ▶ to run
7. \\MainPage.xaml should display

4

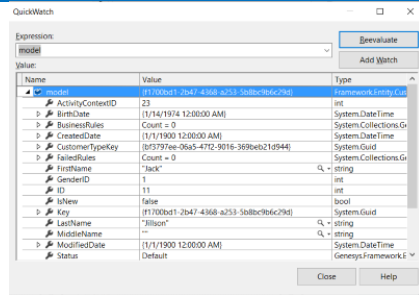
Enter First (x) and Last (o)
-> Click Search



8. Click *Search* icon on left
9. Enter a single letter (x) into First Name and a single letter (o) into Last Name
10. Click *Search* to hit breakpoint

5

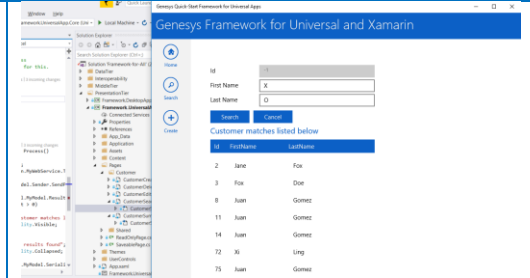
Step-in to CustomerInfo.cs



11. Press F10 to step-over to `BindModel(MyViewModel.MyModel);`
12. Select `MyViewModel.MyModel`
13. Press SHIFT+F9 to see the Quick Watch window

6

See Customer search data before returning to View



14. Continue execution by pressing F5 to see the search complete

4: Debugging Framework for UWP and WPF

Getting Help

Have a question? Have a problem? Contact us anytime...


Contact Genesys Source

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