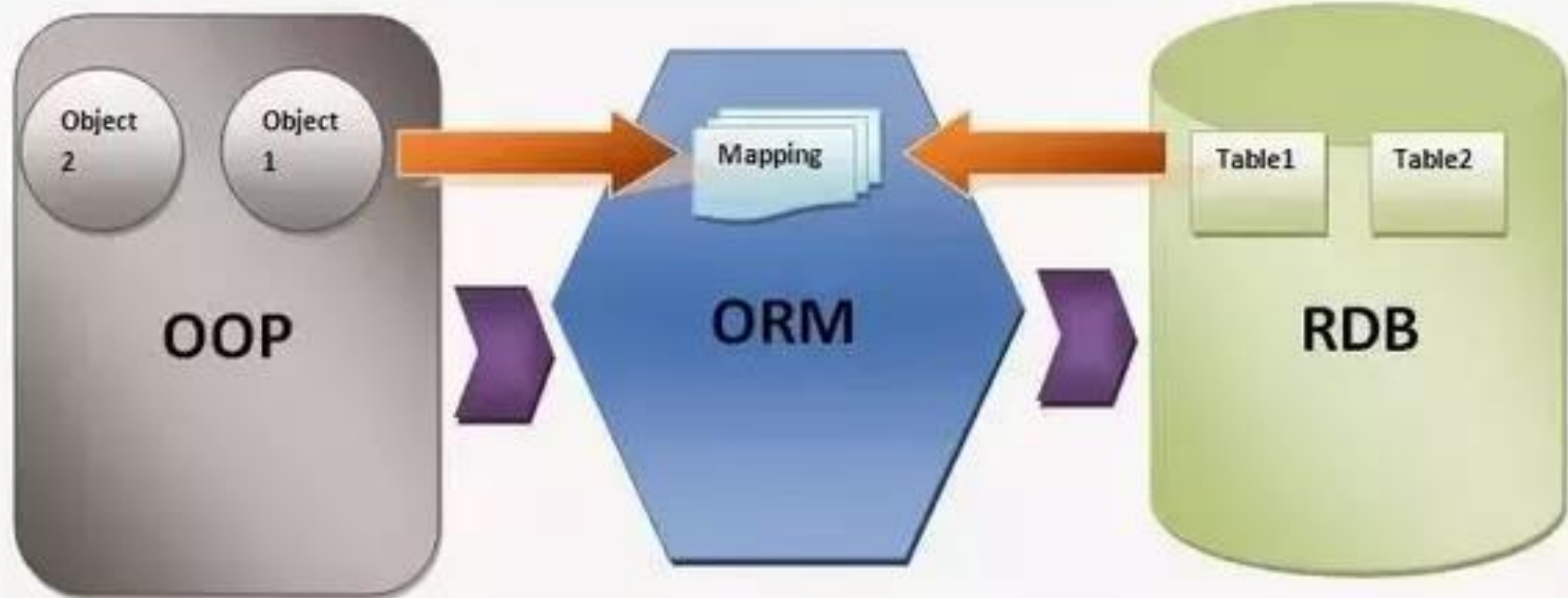


Entity Framework

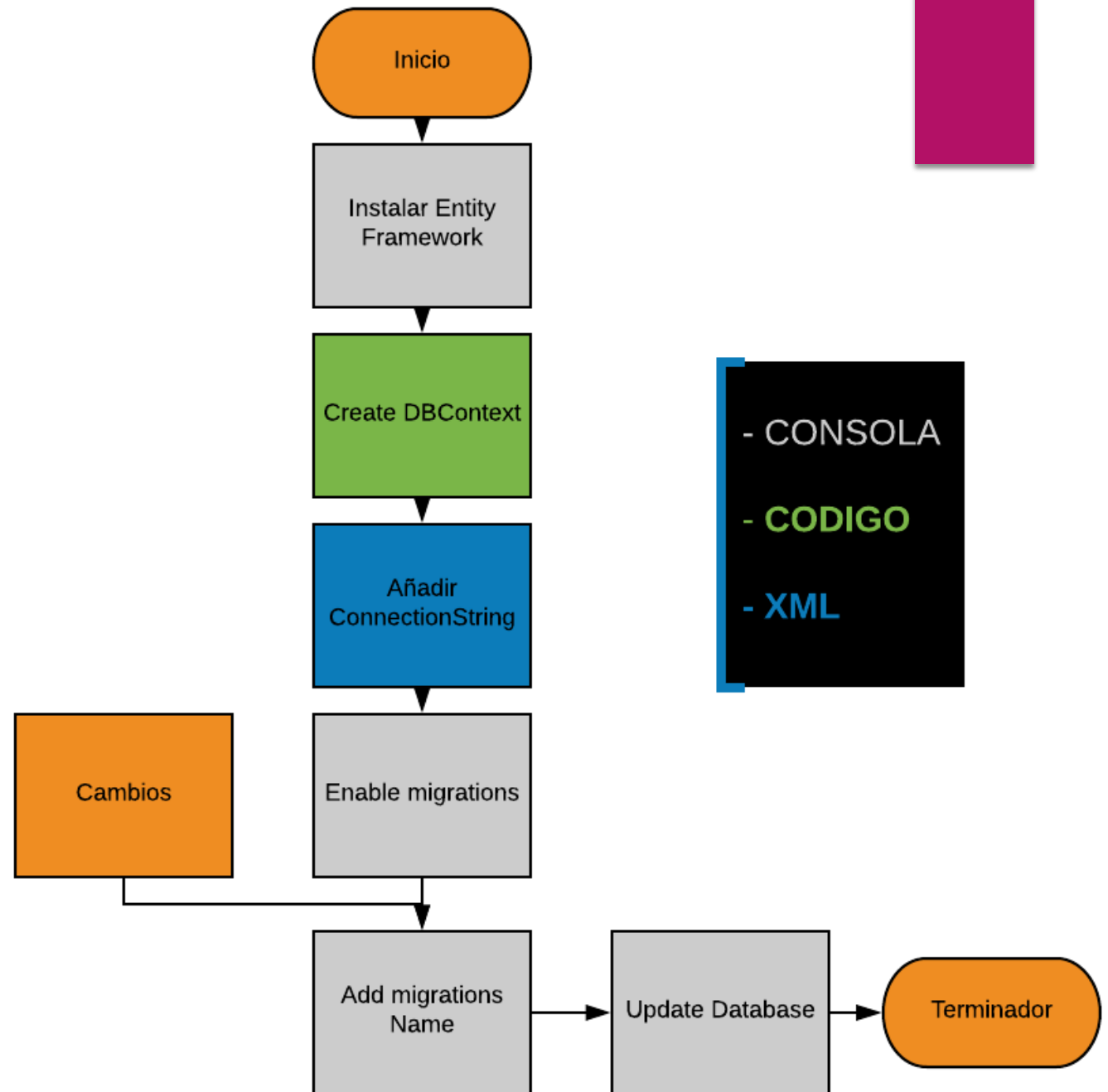
¿Que es Entity framework?

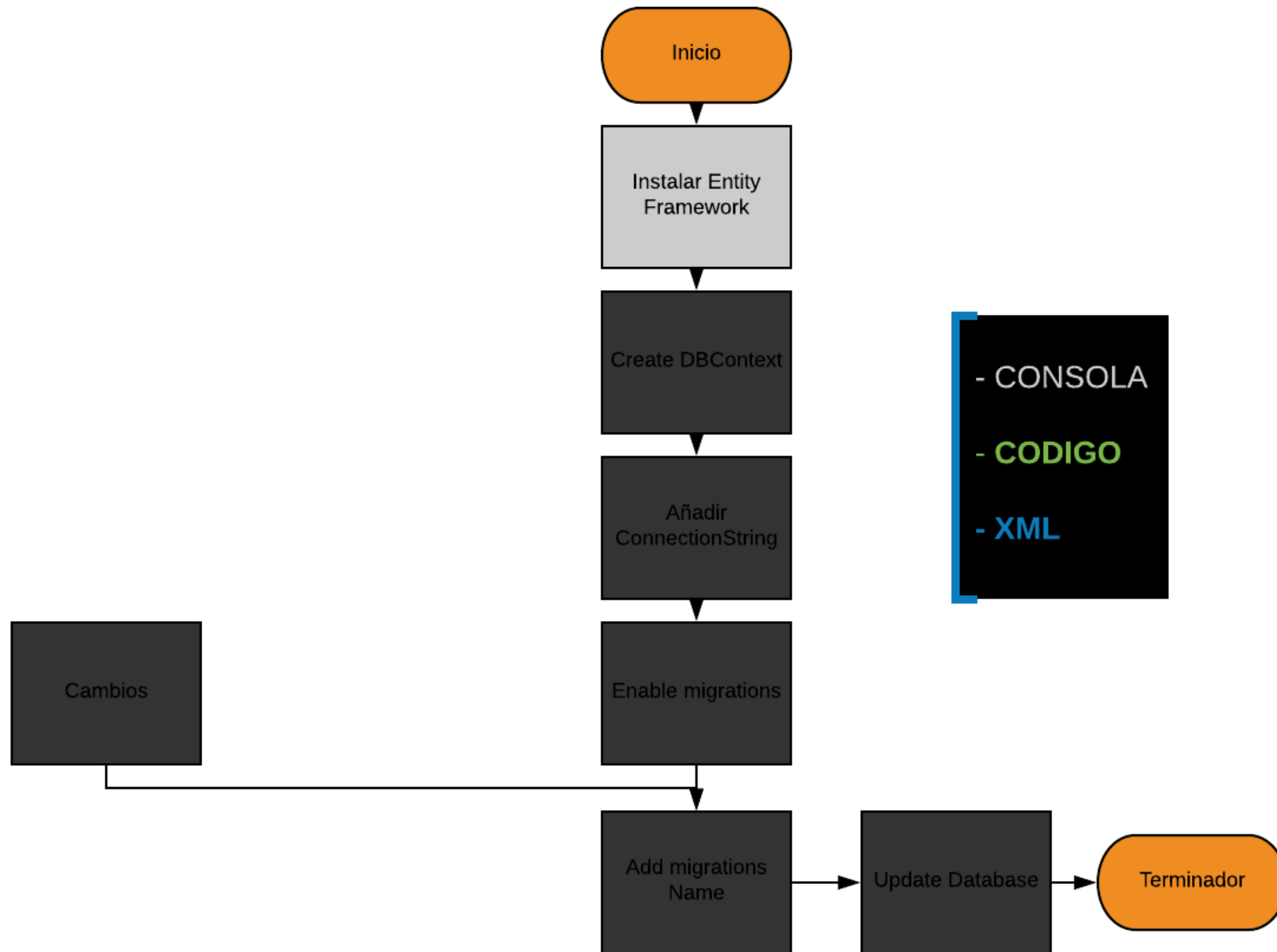
- ▶ Herramienta para acceder a nuestra base de datos esta clasificado como un objeto de mapa relacional, lo que significa que mapea datos en una base relacional en objetos de nuestra aplicación.
- ▶ Con esto ya no necesitaras escribir STORE PROCEDURES o hacer conexiones a las bases de datos o mapear manualmente las tablas EF lo hace todo por ti



Object Relational Mapping

INSTALACION DE ENTITY FRAMEWORK





Instalar Entity Framework

Package Manager Console

Package source: All



Default project: EntityFrameWorkDemo



Package Manager Console Host Version 3.4.4.1321

Type 'get-help NuGet' to see all available NuGet commands.

PM> install-package EntityFramework

Attempting to gather dependency information for package 'EntityFramework.6.2.0' with respect to project 'EntityFrameWorkDemo', targeting '.NETFramework,Version=v4.6'

Attempting to resolve dependencies for package 'EntityFramework.6.2.0' with DependencyBehavior 'Lowest'

Resolving actions to install package 'EntityFramework.6.2.0'

Resolved actions to install package 'EntityFramework.6.2.0'

Adding package 'EntityFramework.6.2.0' to folder 'C:\Users\HISMX002\Desktop\EntityFrameWorkDemo\packages'

Added package 'EntityFramework.6.2.0' to folder 'C:\Users\HISMX002\Desktop\EntityFrameWorkDemo\packages'

Added package 'EntityFramework.6.2.0' to 'packages.config'

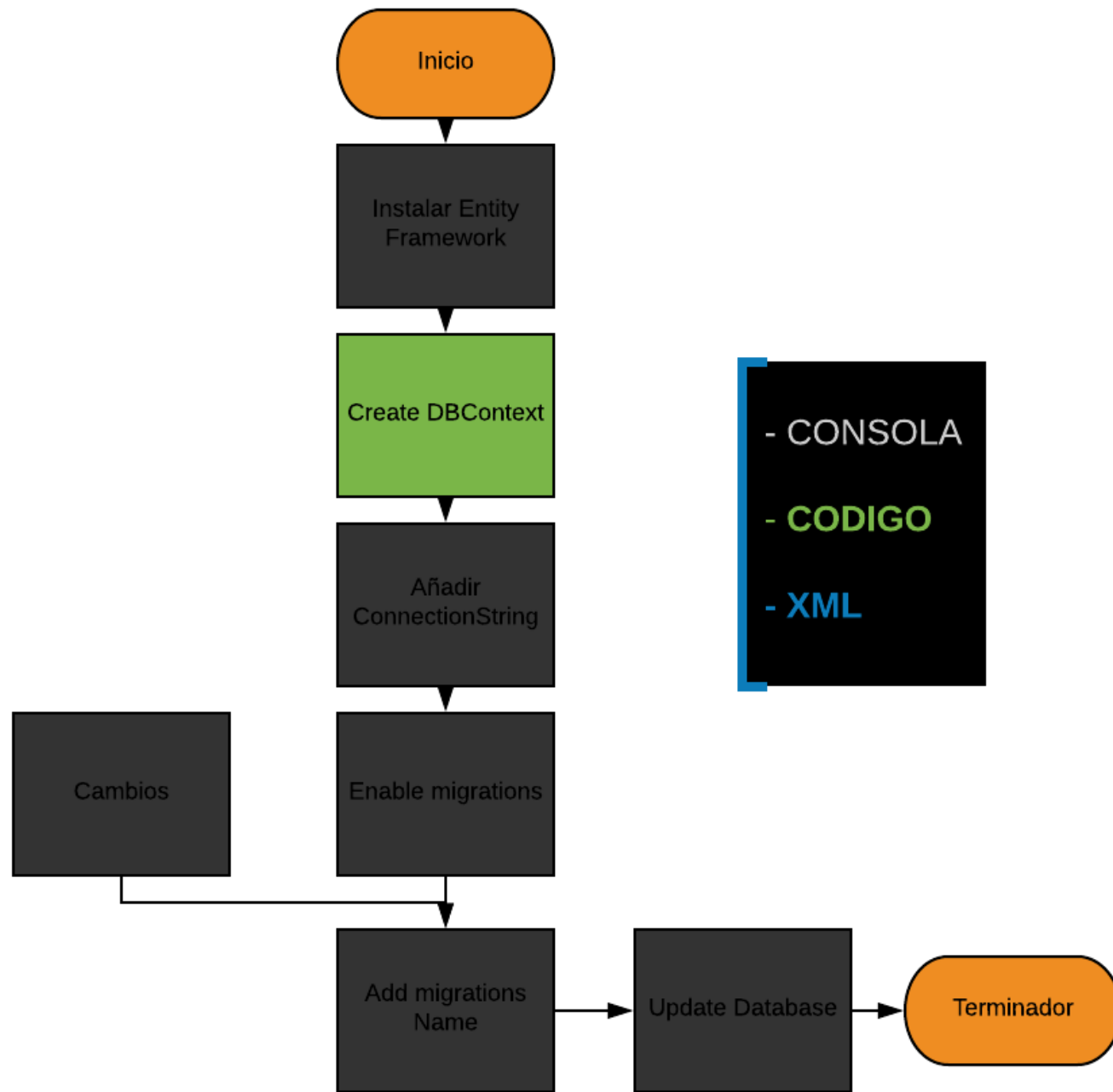
Executing script file 'C:\Users\HISMX002\Desktop\EntityFrameWorkDemo\packages\EntityFramework.6.2.0\tools\init.ps1'

Executing script file 'C:\Users\HISMX002\Desktop\EntityFrameWorkDemo\packages\EntityFramework.6.2.0\tools\install.ps1'

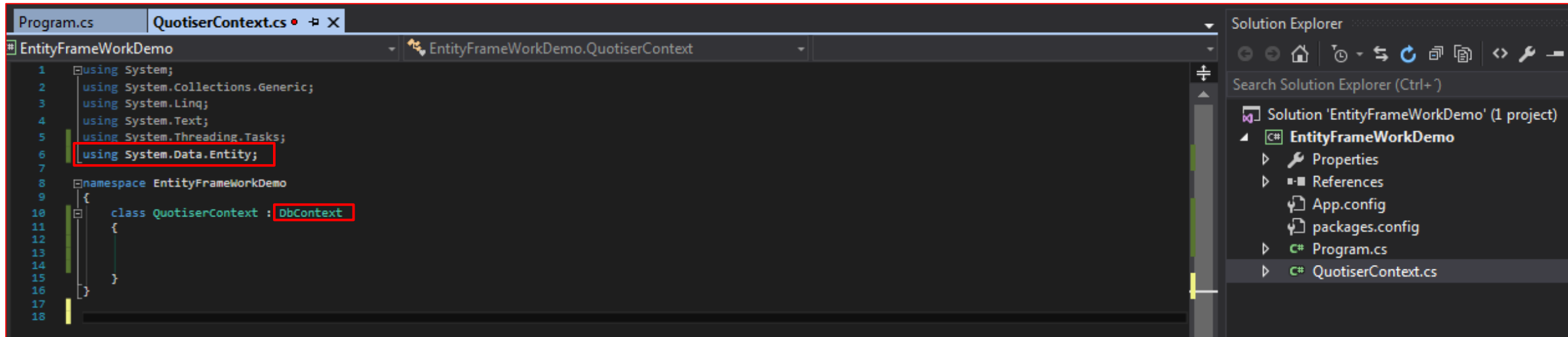
Type 'get-help EntityFramework' to see all available Entity Framework commands.

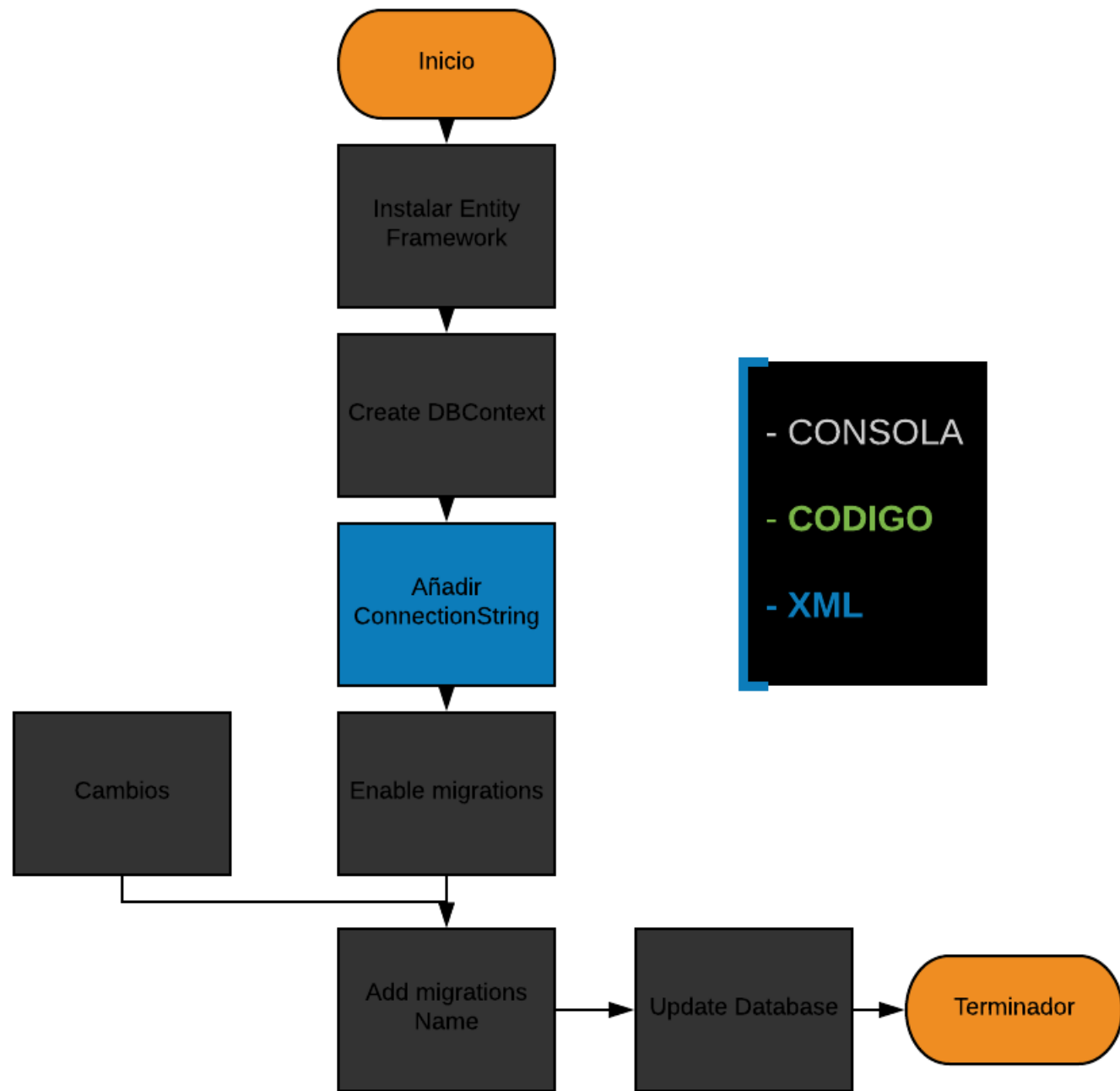
Successfully installed 'EntityFramework 6.2.0' to EntityFrameWorkDemo

PM>

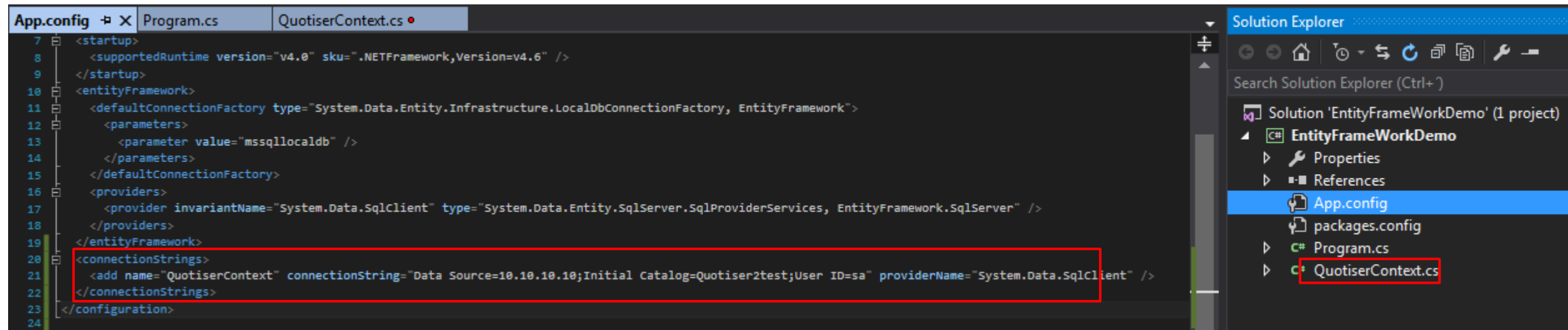


Create Class DbContext





Add Connection String

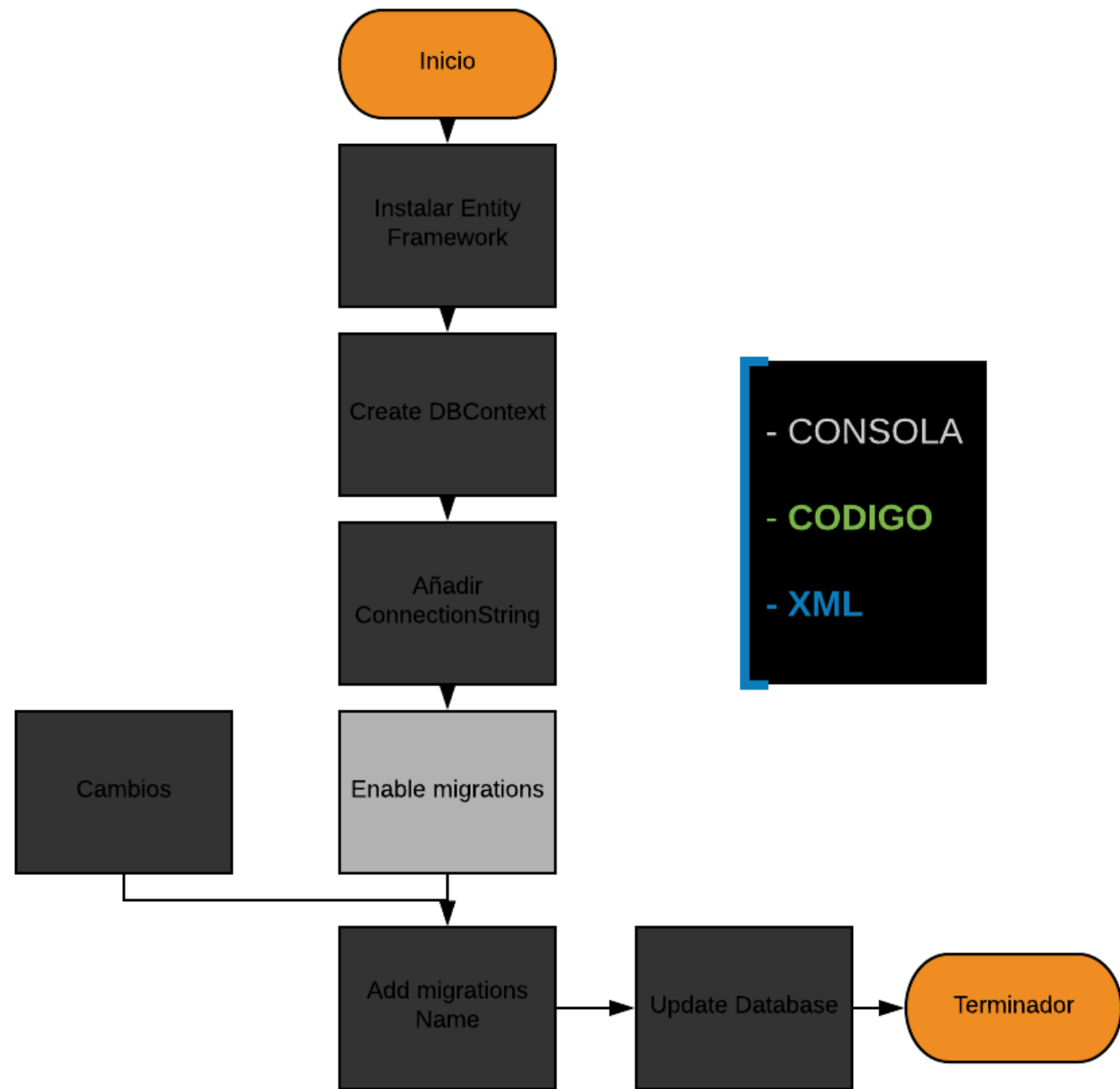


The screenshot displays the Visual Studio IDE with the `App.config` file open. The file contains XML configuration for an Entity Framework application. A new connection string is being added within the `<connectionStrings>` section. The `QuotiserContext.cs` file is also visible in the Solution Explorer.

```
7 <startup>
8   <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.6" />
9 </startup>
10 <entityFramework>
11   <defaultConnectionFactory type="System.Data.Entity.Infrastructure.LocalDbConnectionFactory, EntityFramework">
12     <parameters>
13       <parameter value="mssqllocaldb" />
14     </parameters>
15   </defaultConnectionFactory>
16   <providers>
17     <provider invariantName="System.Data.SqlClient" type="System.Data.Entity.SqlServer.SqlProviderServices, EntityFramework.SqlServer" />
18   </providers>
19 </entityFramework>
20 <connectionStrings>
21   <add name="QuotiserContext" connectionString="Data Source=10.10.10.10;Initial Catalog=Quotiser2test;User ID=sa" providerName="System.Data.SqlClient" />
22 </connectionStrings>
23 </configuration>
24
```

The Solution Explorer on the right shows the project structure for 'EntityFrameWorkDemo' (1 project). The files listed are:

- App.config
- packages.config
- Program.cs
- QuotiserContext.cs



enable-migrations

Package Manager Console

Package source: All



Default project: EntityFrameworkDemo

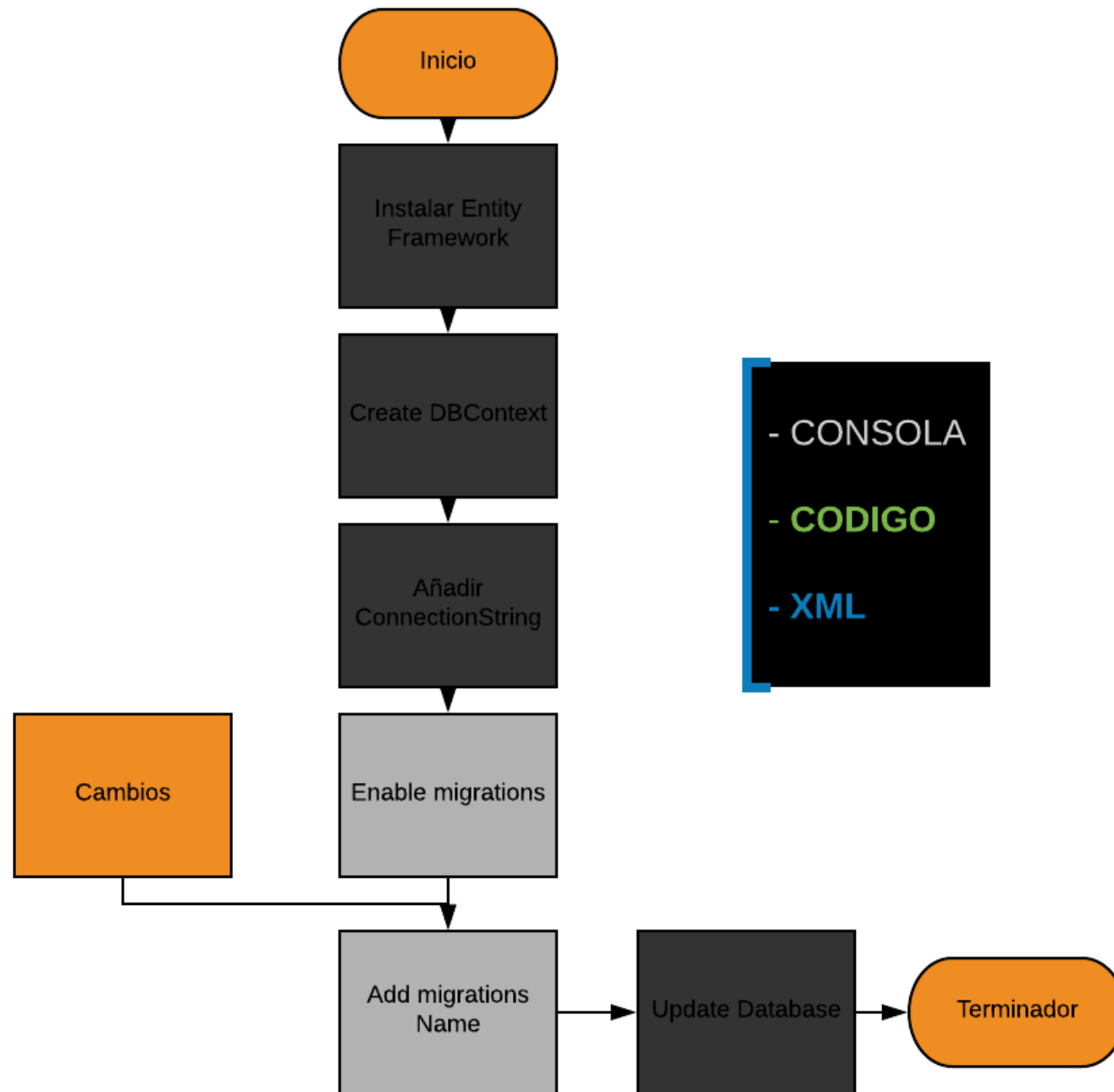


```
PM> enable-migrations
```

```
Checking if the context targets an existing database...
```

```
Code First Migrations enabled for project EntityFrameworkDemo.
```

```
PM>
```



Add-migration NAME

Package Manager Console

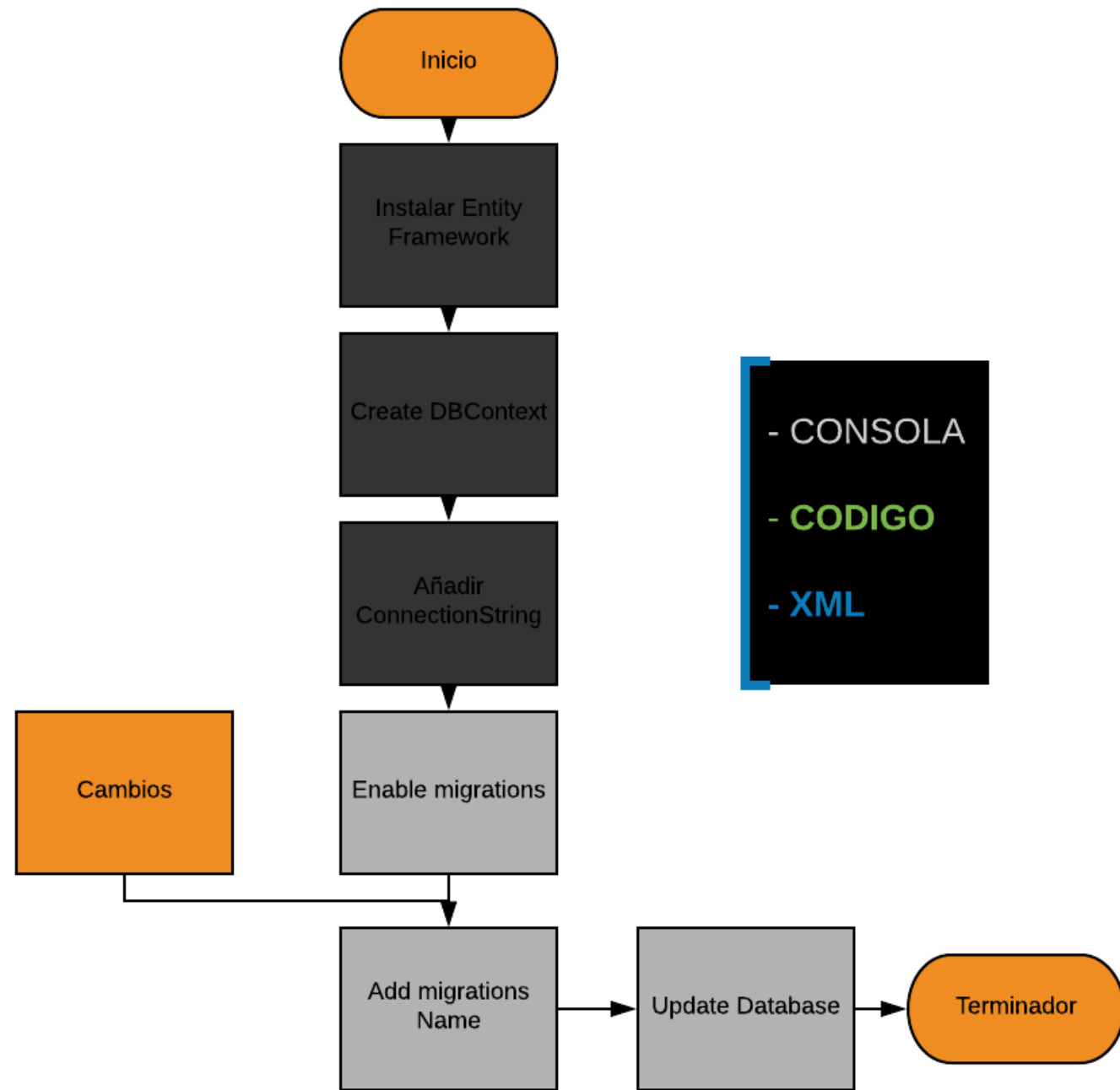
Package source: All Default project: EntityFrameworkDemo

```
PM> add-migration CreateDB
```

```
Scaffolding migration 'CreateDB'.
```

The Designer Code for this migration file includes a snapshot of your current Code First model. This snapshot is used to calculate the changes you want to include in this migration, then you can re-scaffold it by running 'Add-Migration CreateDB' again.

```
PM>
```



Update-Database

Package Manager Console

Package source: All



Default project: EntityFrameworkDemo



PM> Update-Database

Specify the '-Verbose' flag to view the SQL statements being applied to the target database.