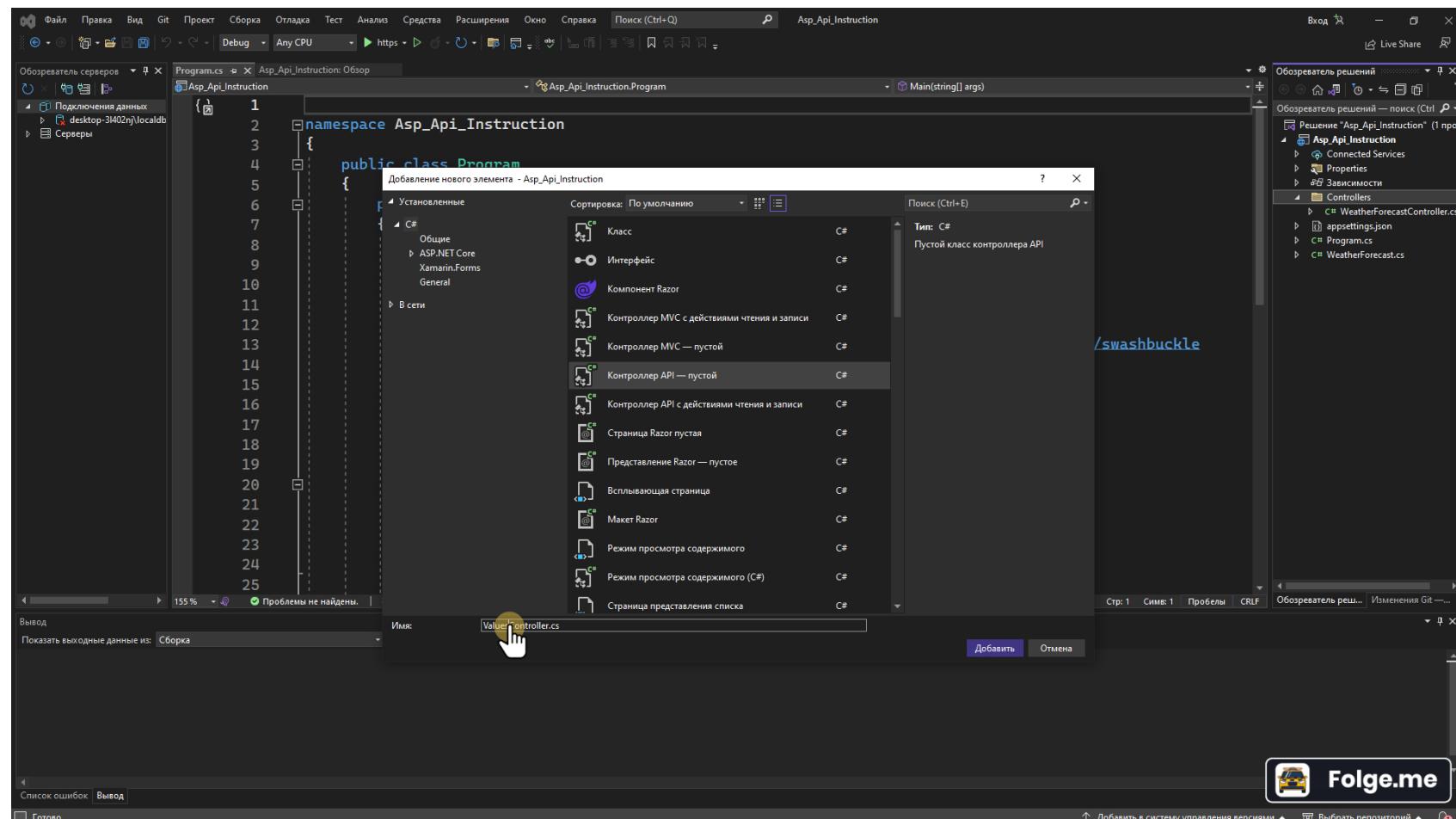


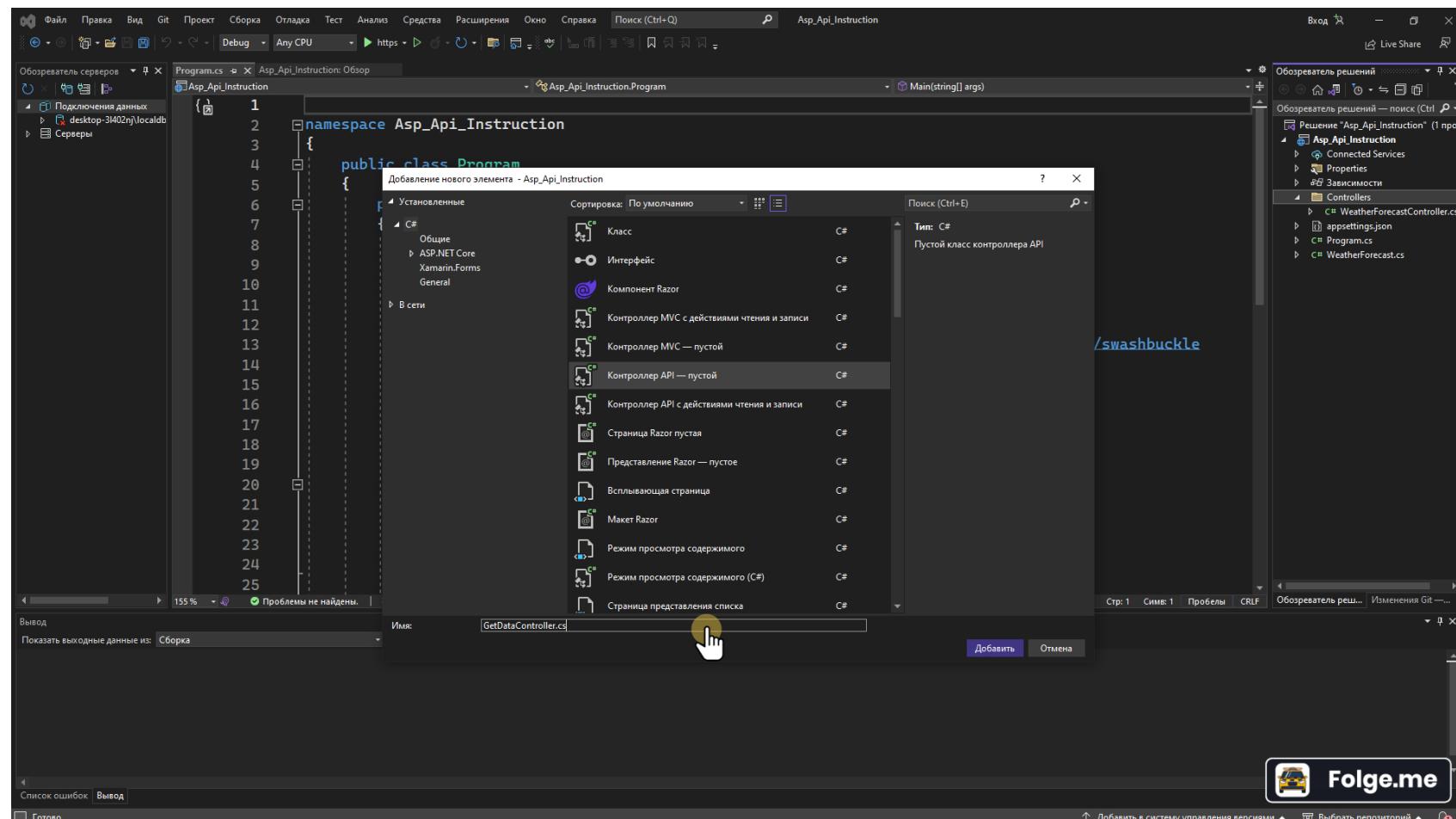
The screenshot shows the Visual Studio IDE interface with the following details:

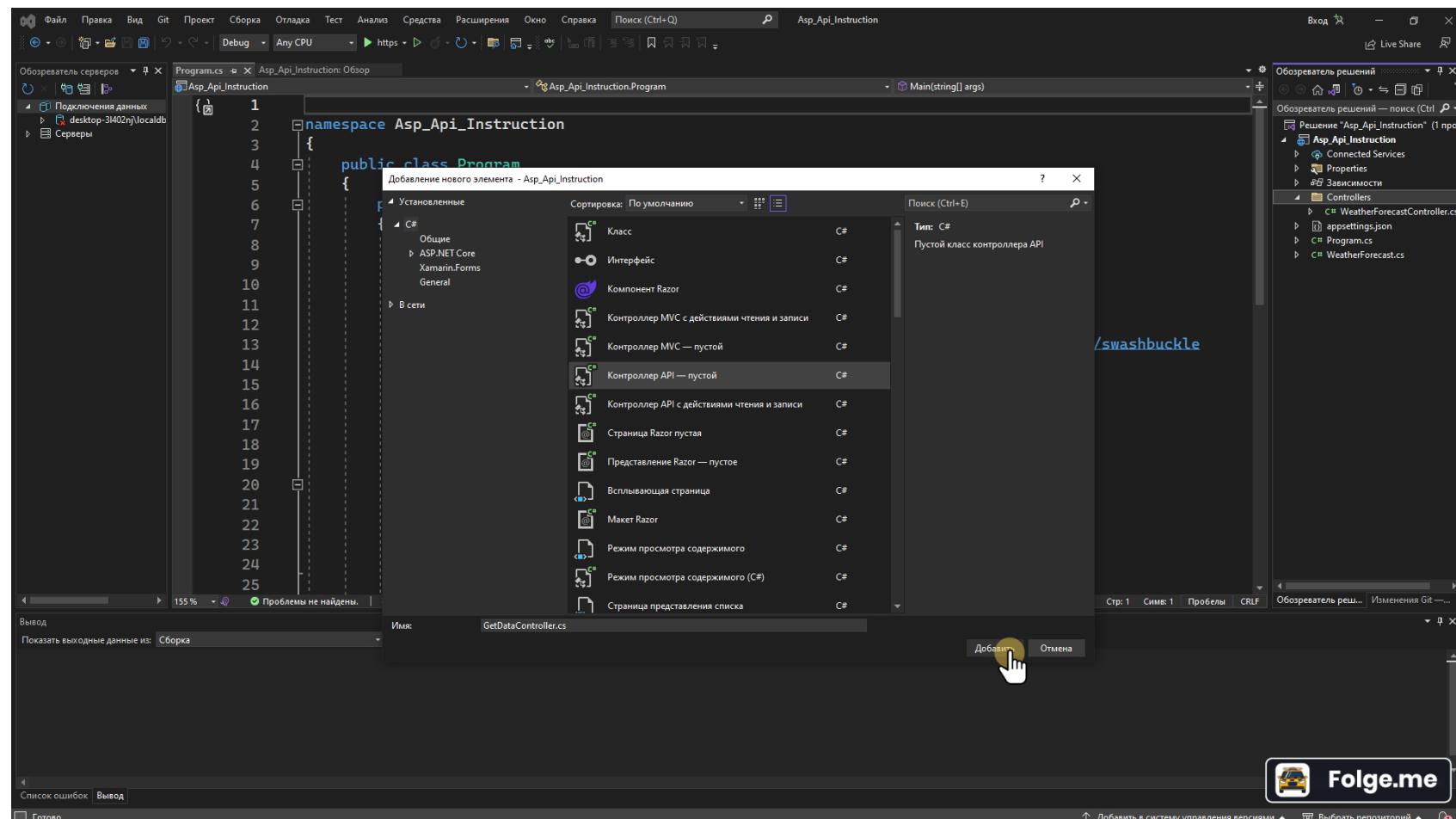
- Menu Bar:** Файл, Правка, Вид, Git, Проект, Сборка, Отладка, Тест, Анализ, Средства, Расширения, Okno, Справка, Поиск (Ctrl+Q).
- Toolbar:** Standard toolbar with icons for opening files, saving, running, and debugging.
- Solution Explorer:** Shows the solution "Asp\_Api\_Instruction" with one project "Asp\_Api\_Instruction". The project contains "Connected Services", "Properties", "Зависимости" (Dependencies), and a "Controllers" folder containing "WeatherForecastController.cs", "appsettings.json", "Program.cs", and "WeatherForecast.cs".
- Toolbox:** Standard .NET toolbox with various UI controls.
- Code Editor:** The main window displays the "Program.cs" file with the following code:

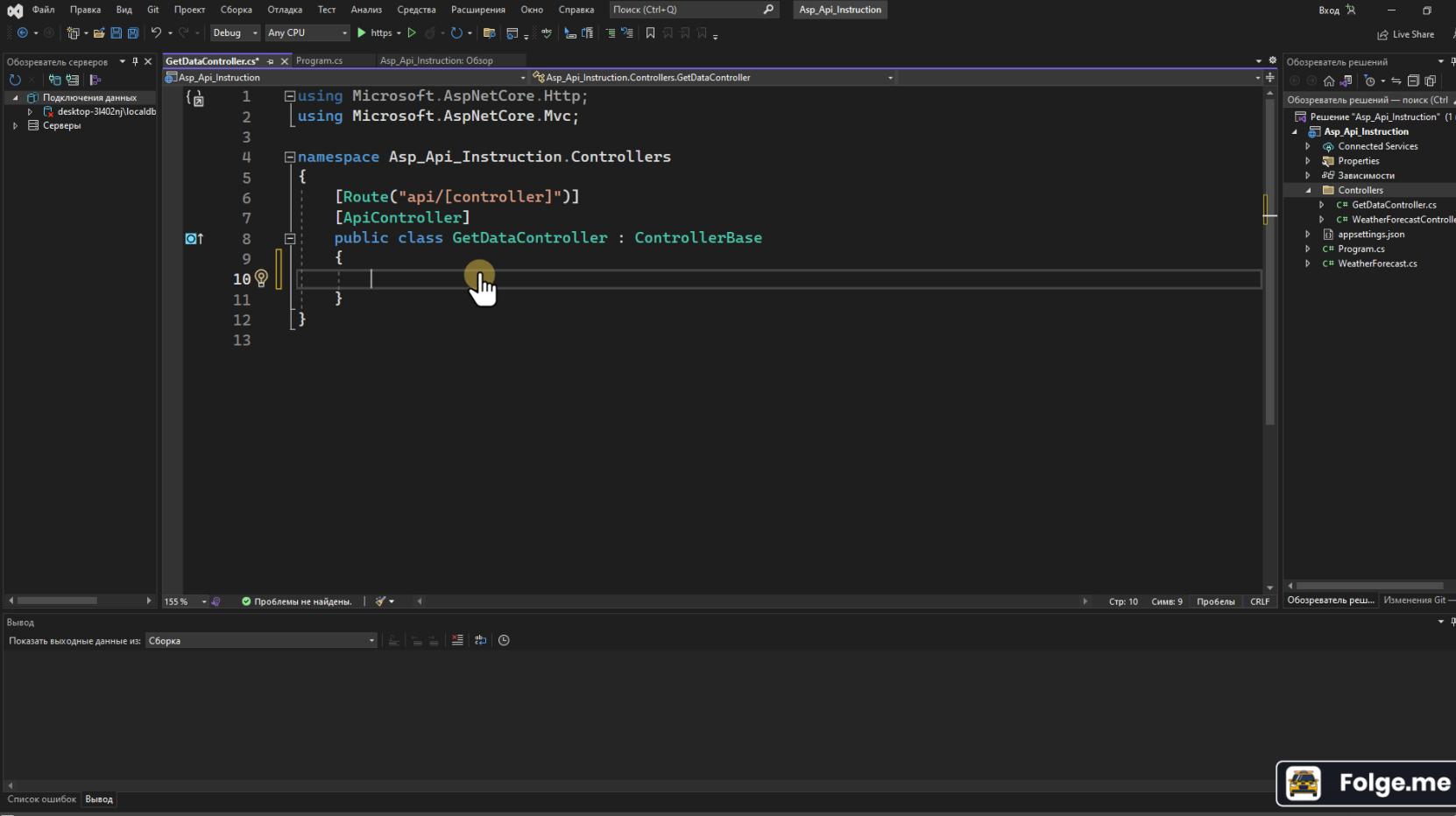
```
1  namespace Asp_Api_Instruction
2  {
3      public class Program
4      {
5          public static void Main(string[] args)
6          {
7              var builder = WebApplication.CreateBuilder(args);
8
9              // Add services to the container.
10
11             builder.Services.AddControllers();
12             // Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle
13             builder.Services.AddEndpointsApiExplorer();
14             builder.Services.AddSwaggerGen();
15
16             var app = builder.Build();
17
18             // Configure the HTTP request pipeline.
19             if (app.Environment.IsDevelopment())
20             {
21                 app.UseSwagger();
22                 app.UseSwaggerUI();
23             }
24
25         }
26     }
```

- Output Window:** Displays "Показать выходные данные из: Сборка" (Show output from: Build). It shows a yellow circular icon with a white hand cursor pointing to it.
- Status Bar:** Страница 1, Символы 1, Проблемы, CRLF, Обозреватель решений, Изменения Git.
- Watermark:** Folge.me logo in the bottom right corner.









Скриншот экрана редактора Visual Studio с открытым файлом `GetDataController.cs`. Код определяет класс `GetDataController`, наследующий  `ControllerBase`. Класс имеет атрибуты `[Route("api/[controller]")]` и `[ApiController]`. В окне сообщений внизу экрана видно сообщение о том, что ошибок не найдено.

```
1  using Microsoft.AspNetCore.Http;
2  using Microsoft.AspNetCore.Mvc;
3
4  namespace Asp_Api_Instruction.Controllers
5  {
6      [Route("api/[controller]")]
7      [ApiController]
8      public class GetDataController : ControllerBase
9      {
10         }
11     }
12   }
13 }
```

The screenshot shows the Microsoft Visual Studio interface with the following details:

- File Menu:** Файл, Правка, Вид, Git, Проект, Сборка, Отладка, Тест, Анализ, Средства, Расширения, Окно, Справка.
- Search Bar:** Поиск (Ctrl+Q).
- Current Project:** Asp\_Api\_Instruction.
- Code Editor:** The file `GetDataController.cs` is open, showing C# code for an ASP.NET Core API controller. A yellow cursor is positioned over the closing brace of the `DBConnect()` method on line 14.
- Solution Explorer:** Shows the project structure with files like `Program.cs`, `Controllers`, `WeatherForecastController.cs`, `Program.cs`, and `Number of steps: 9`.
- Task List:** A modal window titled "Capturing" is displayed, showing the latest step details. It includes fields for "Step Title" and "Step Description", and buttons for "Pause" and "Finish".
- Output Window:** Displays the message "Проблемы не найдены." (No problems found.)
- Status Bar:** Стр: 13, Симв: 13, Проблемы: 0, CRLF, Обозреватель решений, Изменения Git.
- Bottom Right:** Folge.me logo and repository management links.

The screenshot shows the Visual Studio IDE interface for a .NET Core project named "Asp\_Api\_Instruction".

**Code Editor:** The main window displays the file `GetDataController.cs` with the following C# code:

```
1  using Microsoft.AspNetCore.Http;
2  using Microsoft.AspNetCore.Mvc;
3
4  namespace Asp_Api_Instruction.Controllers
5  {
6      [Route("api/[controller]")]
7      [ApiController]
8      public class GetDataController : ControllerBase
9      {
10         [HttpGet("GetData")]
11         public void DBConnect()
12         {
13             string connectionString = "Data Source=(localdb)\\mssqllocaldb";
14         }
15     }
16 }
17
```

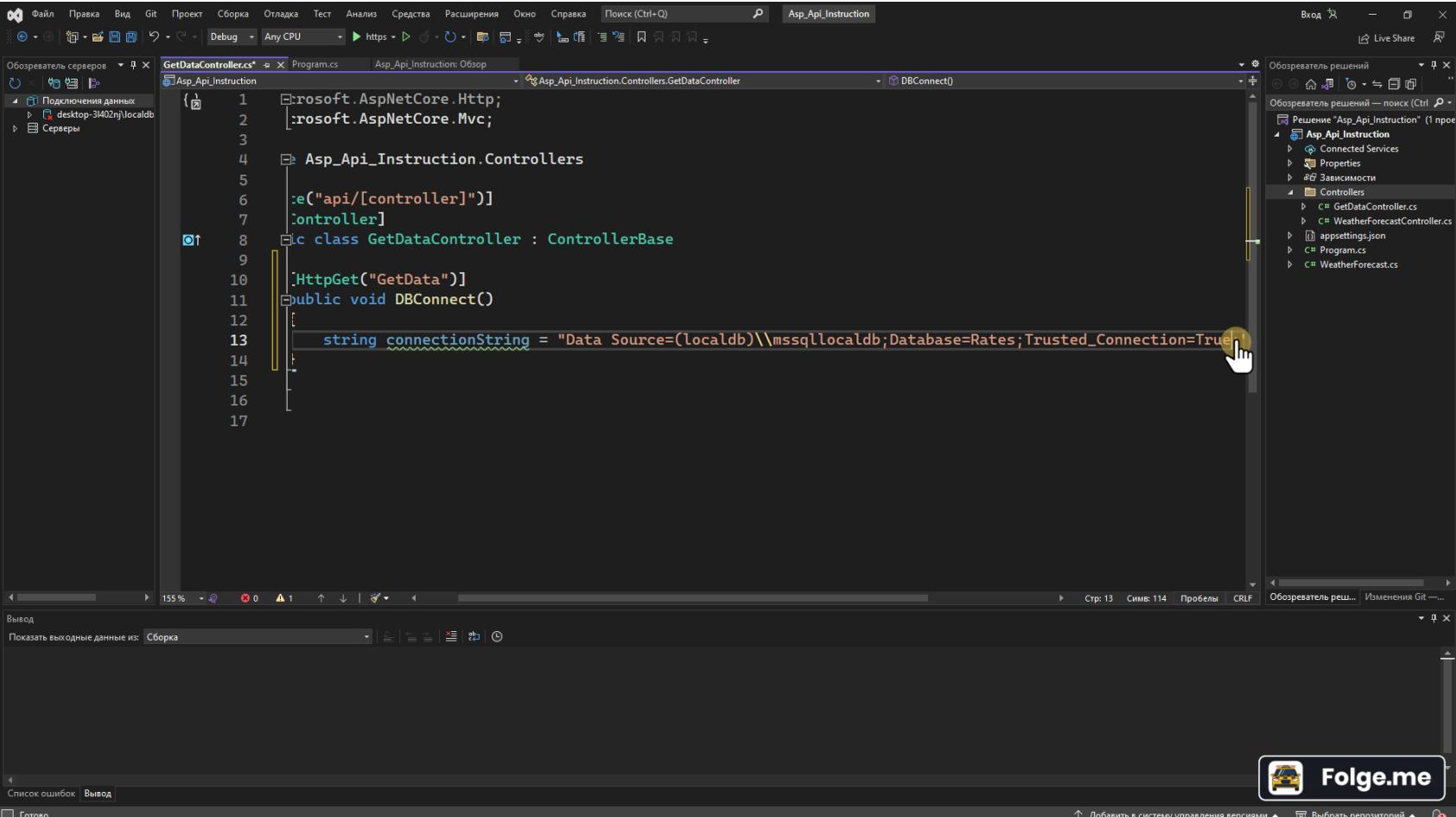
A mouse cursor is positioned over the closing brace of the `DBConnect()` method at line 15.

**Solution Explorer:** The right-hand sidebar shows the project structure:

- Решение "Asp\_Api\_Instruction" (1 проек)
- Asp\_Api\_Instruction
- Connected Services
- Properties
- Зависимости
- Controllers
  - GetDataController.cs
  - WeatherForecastController.cs
- appsettings.json
- Program.cs
- WeatherForecast.cs

**Folge.me watermark:** A watermark for the website Folge.me is visible in the bottom right corner of the screen.





```
1 using Microsoft.AspNetCore.Http;
2 using Microsoft.AspNetCore.Mvc;
3
4 namespace Asp_Api_Instruction.Controllers
5 {
6     [Route("api/[controller]")]
7     [ApiController]
8     public class GetDataAdapter : ControllerBase
9     {
10        [HttpGet("GetData")]
11        public void DBConnect()
12        {
13            string connectionString = "Data Source=(localdb)\\mssqllocaldb;Database=Rates;Trusted_Connection=True!";
14        }
15    }
16 }
17
```

The screenshot shows the Microsoft Visual Studio IDE interface with the following details:

- Menu Bar:** Файл, Правка, Вид, Git, Проект, Сборка, Отладка, Тест, Анализ, Средства, Расширения, Окно, Справка, Поиск (Ctrl+Q).
- Toolbars:** Standard toolbar.
- Code Editor:** The main window displays the `GetDataController.cs` file. The code is as follows:

```
1  using Microsoft.AspNetCore.Http;
2  using Microsoft.AspNetCore.Mvc;
3
4  namespace Asp_Api_Instruction.Controllers
5  {
6      [Route("api/[controller]")]
7      [ApiController]
8      public class GetDataController : ControllerBase
9      {
10         [HttpGet("GetData")]
11         public void DBConnect()
12         {
13             string connectionString = "Data Source=(localdb)\\mssqllocaldb;Database=Rates;Trusted_Connection=True";
14
15             using (SqlConnection connection = new SqlConnection(connectionString))
16             {
17                 connection.Open();
18             }
19         }
20     }
21 }
```

- Solution Explorer:** Shows the project structure for "Asp\_Api\_Instruction".
- Task List:** Shows the tasks available for the current file.
- Output Window:** Displays the build output.
- Status Bar:** Includes icons for Git, Solution, and other system status.

The screenshot shows a Visual Studio interface with a dark theme. The main window displays a C# file named `GetDataController.cs`. The code defines a controller `GetDataController` that inherits from `ControllerBase`. It contains a method `DBConnect()` with an `[HttpGet("GetData")]` attribute. Inside this method, there is a block of code that attempts to create a `SqlConnection` object:

```
1  using Microsoft.AspNetCore.Http;
2  using Microsoft.AspNetCore.Mvc;
3
4  namespace Asp_Api_Instruction.Controllers
5  {
6      [Route("api/[controller]")]
7      [ApiController]
8      public class GetDataController : ControllerBase
9      {
10         [HttpGet("GetData")]
11         public void DBConnect()
12         {
13             string connectionString = "Data Source=(localdb)\\mssqllocaldb;Database=Rates;Trusted_Connection=True";
14
15             using (SqlConnection connection = new SqlConnection(connectionString))
16             {
17                 connection.Open();
18             }
19         }
20     }
21 }
```

A tooltip appears over the `SqlConnection` keyword, indicating a type or name resolution error:

0246: Не удалось найти тип или имя пространства имен "SqlConnection" (возможно, отсутствует директива using или ссылка на сборку).

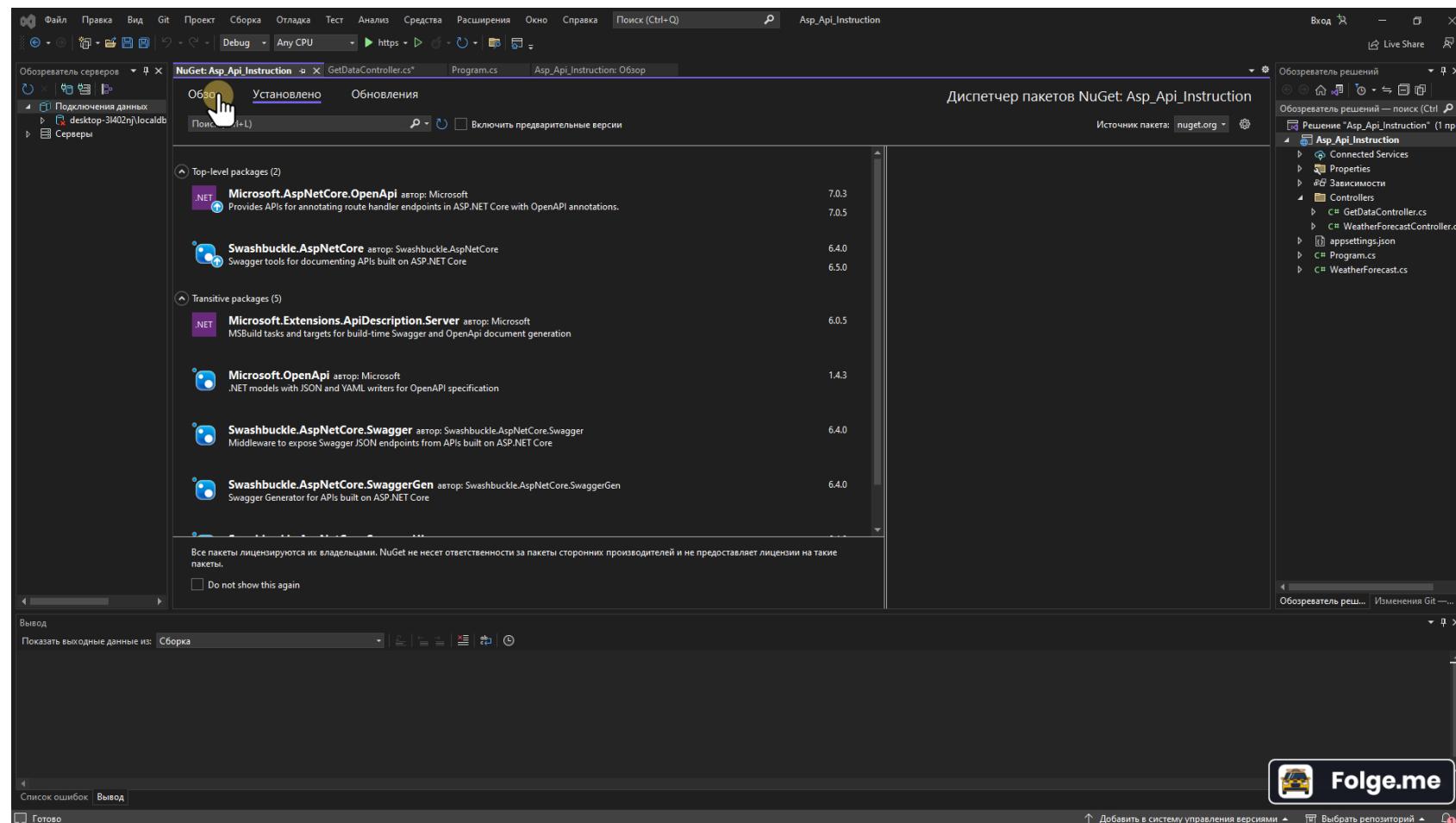
The bottom right corner of the interface features a watermark for **Folge.me**.

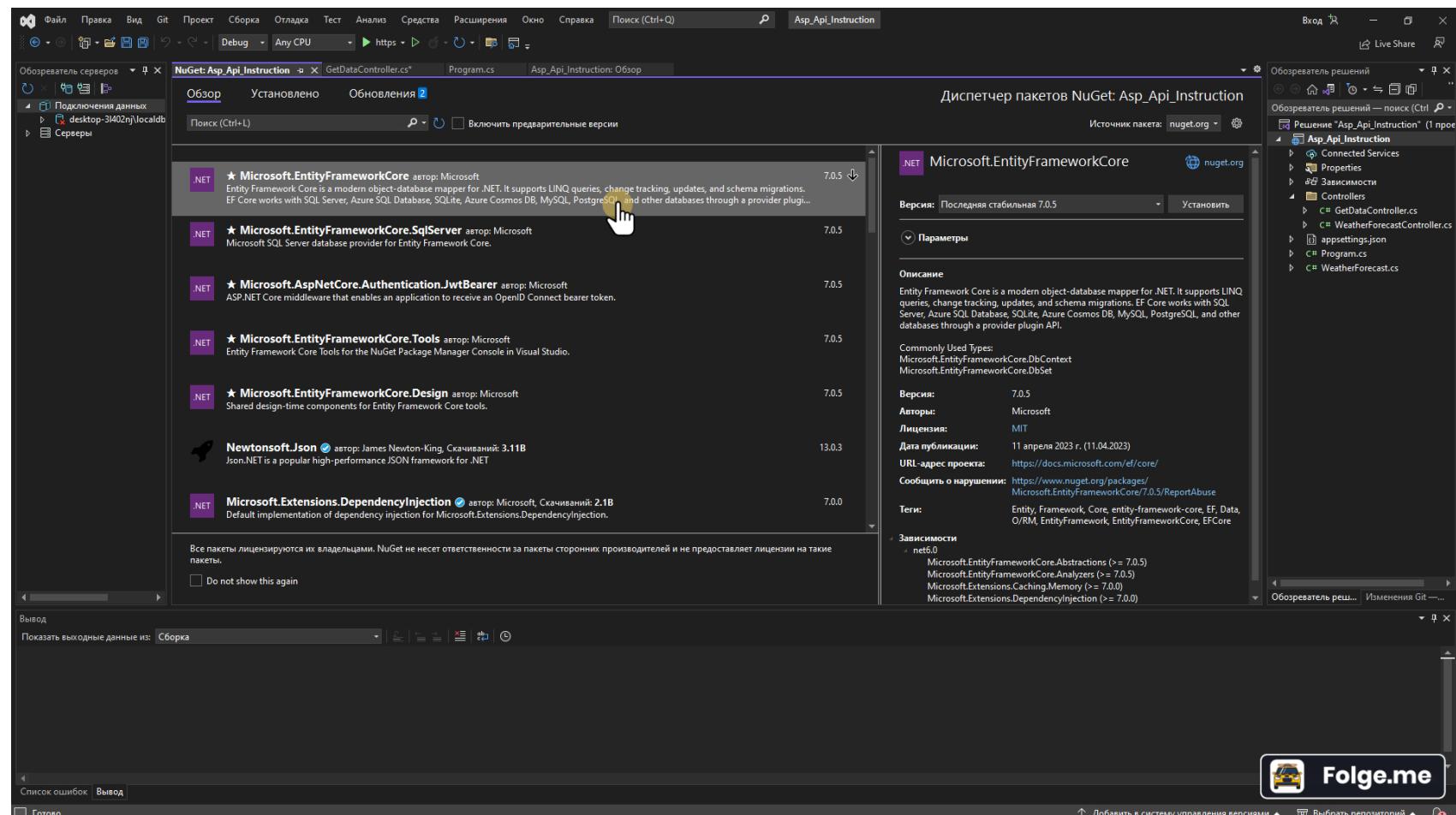
The screenshot shows the Microsoft Visual Studio interface with the following details:

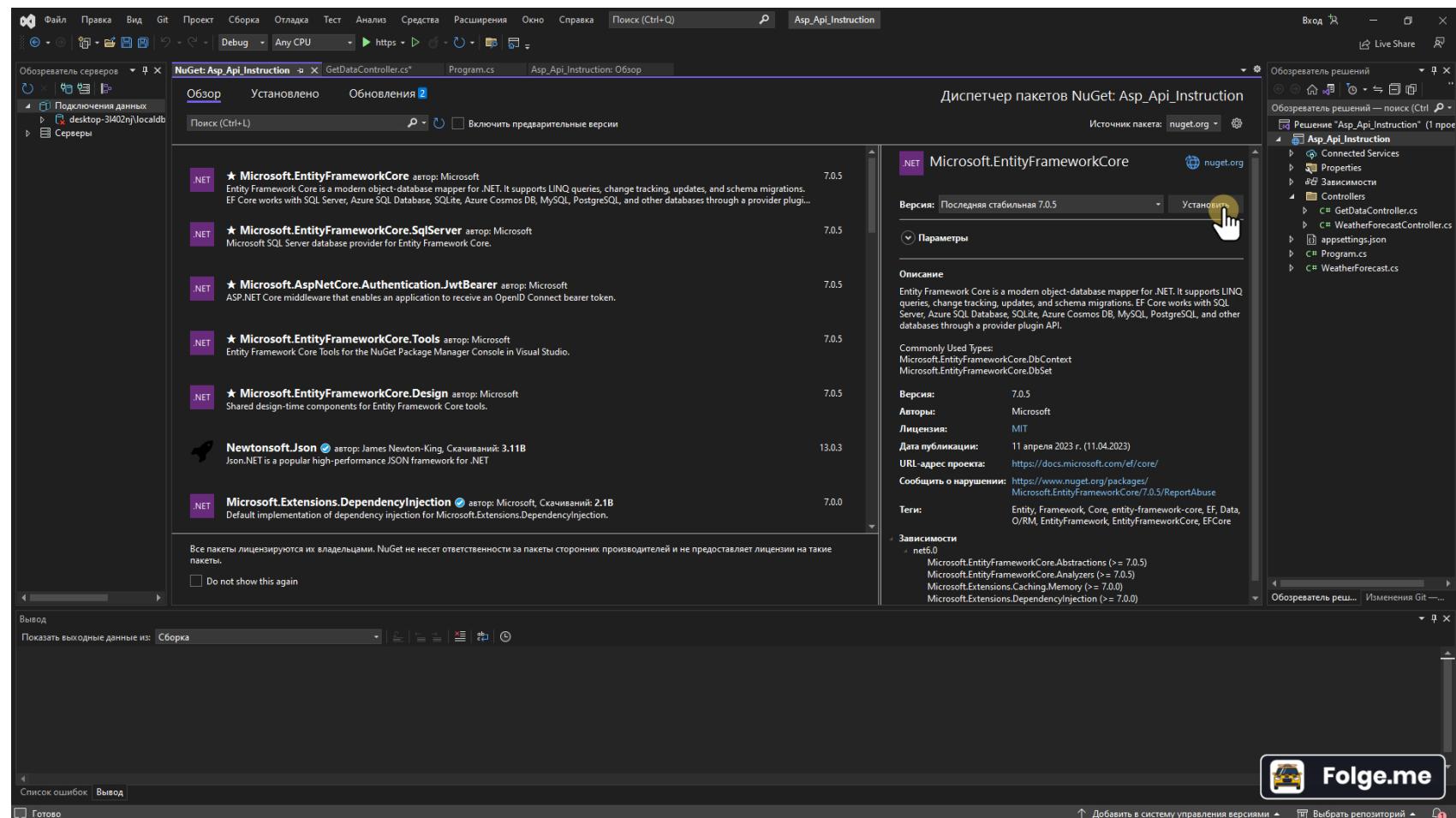
- Menu Bar:** Файл, Правка, Вид, Git, Проект, Сборка, Отладка, Тест, Анализ, Средства, Расширения, Окно, Справка, Поиск (Ctrl+Q).
- Toolbar:** Standard icons for file operations.
- Solution Explorer:** Shows the project structure with "Обозреватель решений" (Solution Explorer) expanded, displaying "Решение 'Asp\_Api\_Instruction' (1 прое...)" and "Asp\_Api\_Instruction".
- Toolbars:** Standard Visual Studio toolbars.
- Code Editor:** Displays the file "GetDataAdapter.cs" with the following code:

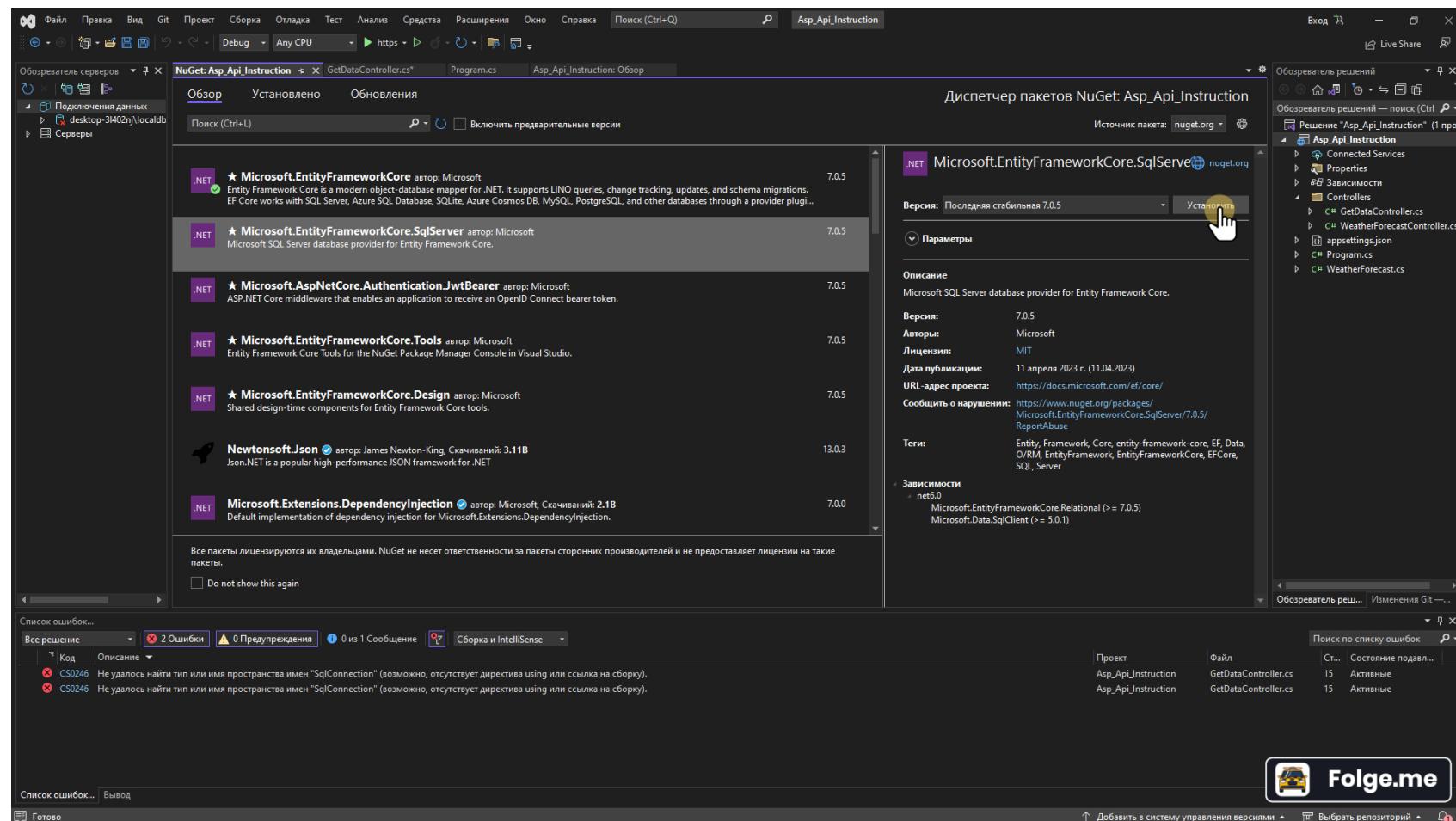
```
1  using Microsoft.AspNetCore.Http;
2  using Microsoft.AspNetCore.Mvc;
3
4  namespace Asp_Api_Instruction.Controllers
5  {
6      [Route("api/[controller]")]
7      [ApiController]
8      public class GetDataAdapter : ControllerBase
9      {
10         [HttpGet("GetData")]
11         public void DBConnect()
12         {
13             string connectionString = "Data Source=(localdb)\\mssqllocaldb;Database=Rates;Trust";
14
15             using (SqlConnection connection = new SqlConnection(connectionString))
16             {
17                 connection.Open();
18             }
19         }
20     }
21 }
```

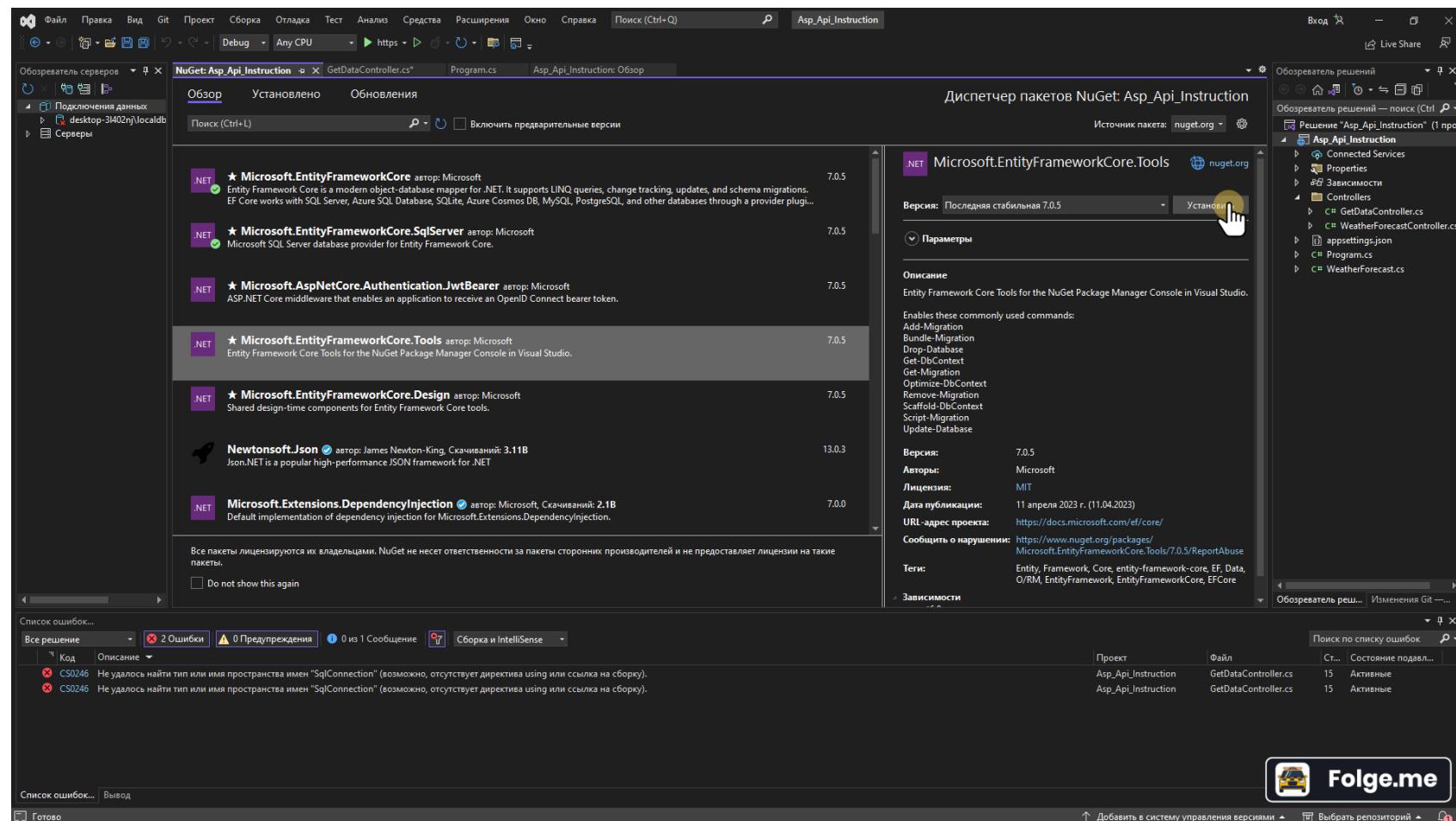
- Context Menu:** A context menu is open over the "DBConnect()" method, listing options such as "Собрать" (Build), "Пересобрать" (Rebuild), "Очистить" (Clean), "Представление" (View), "Анализ и очистка кода" (Analyze and clean code), "Упаковать" (Pack), "Опубликовать..." (Publish), "Настройте Application Insights...", "Обзор" (Browse), "Открыть элемент как корень обозревателя" (Open element as root in browser), "Новое представление: Обозреватель решений" (New view: Solution Explorer), "Вложение файлов" (Attach files), "Изменить файл проекта" (Change project file), "Добавить" (Add), "Управление пакетами NuGet..." (Manage NuGet packages...), "Управление клиентскими библиотеками..." (Manage client libraries...), "Управление секретами пользователей" (Manage user secrets), "Удалить неиспользуемые ссылки..." (Delete unused references...), "Синхронизация пространства имён" (Sync namespaces), "Настройка начальных проектов..." (Configure initial projects...), "Назначить в качестве запускаемого проекта" (Set as startup project), "Отладка" (Debug), "Вырезать" (Cut), "Удалить" (Delete), "Переименовать" (Rename), "Выгрузить проект" (Unload project), "Загрузить прямые зависимости" (Load direct dependencies), "Загрузить все дерево зависимостей" (Load entire dependency tree), "Копировать полный путь" (Copy full path), "Открыть папку в проводнике" (Open folder in Explorer), "Открыть в терминале" (Open in terminal), "Свойства" (Properties), and "Добавить в систему управления версиями" (Add to source control).
- Output Window:** Показать выходные данные из: Сборка (Show output from: Build).
- Status Bar:** Страница 15 из 15 (Page 15 of 15).
- Bottom Right:** Folge.me logo.

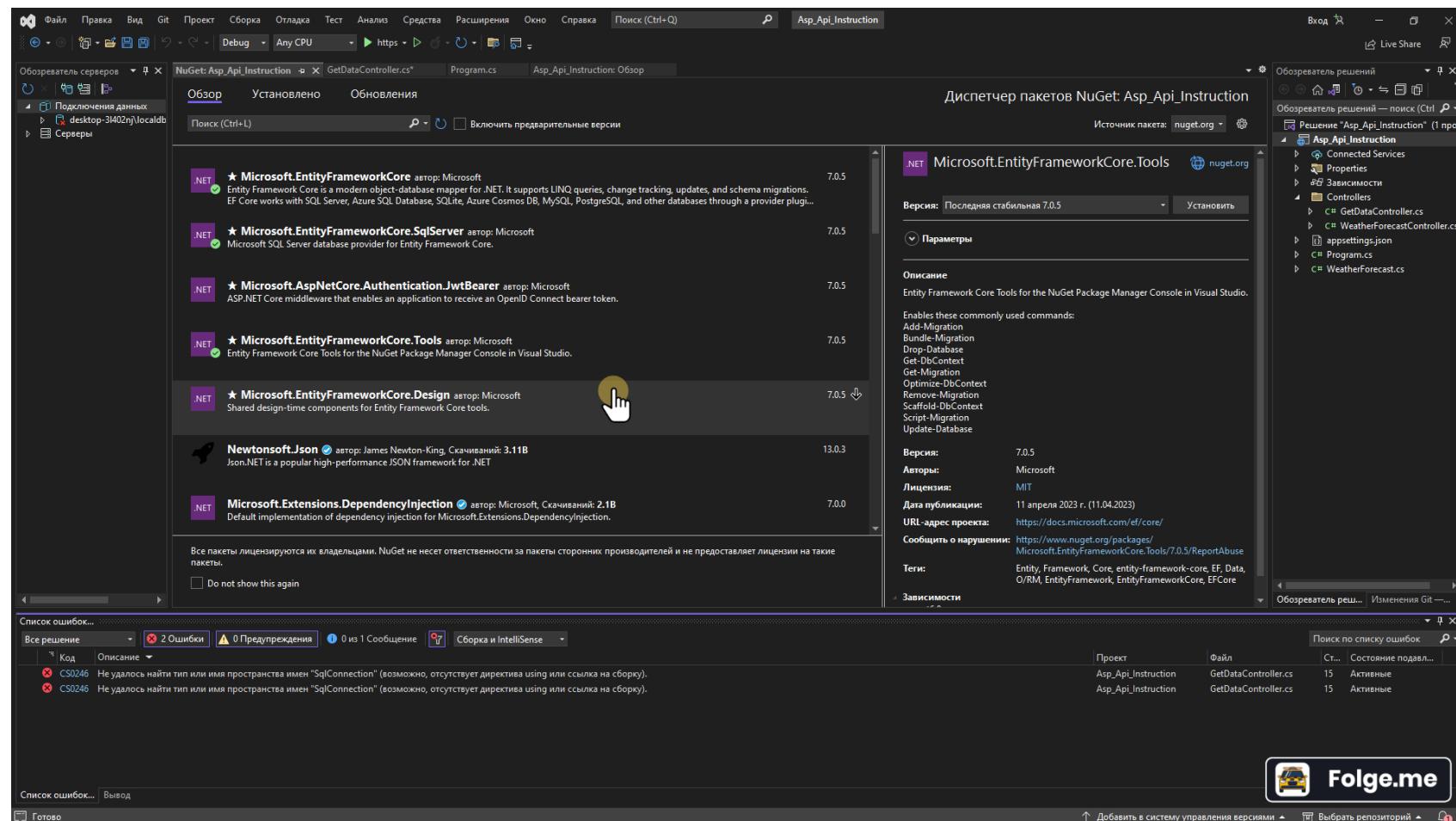


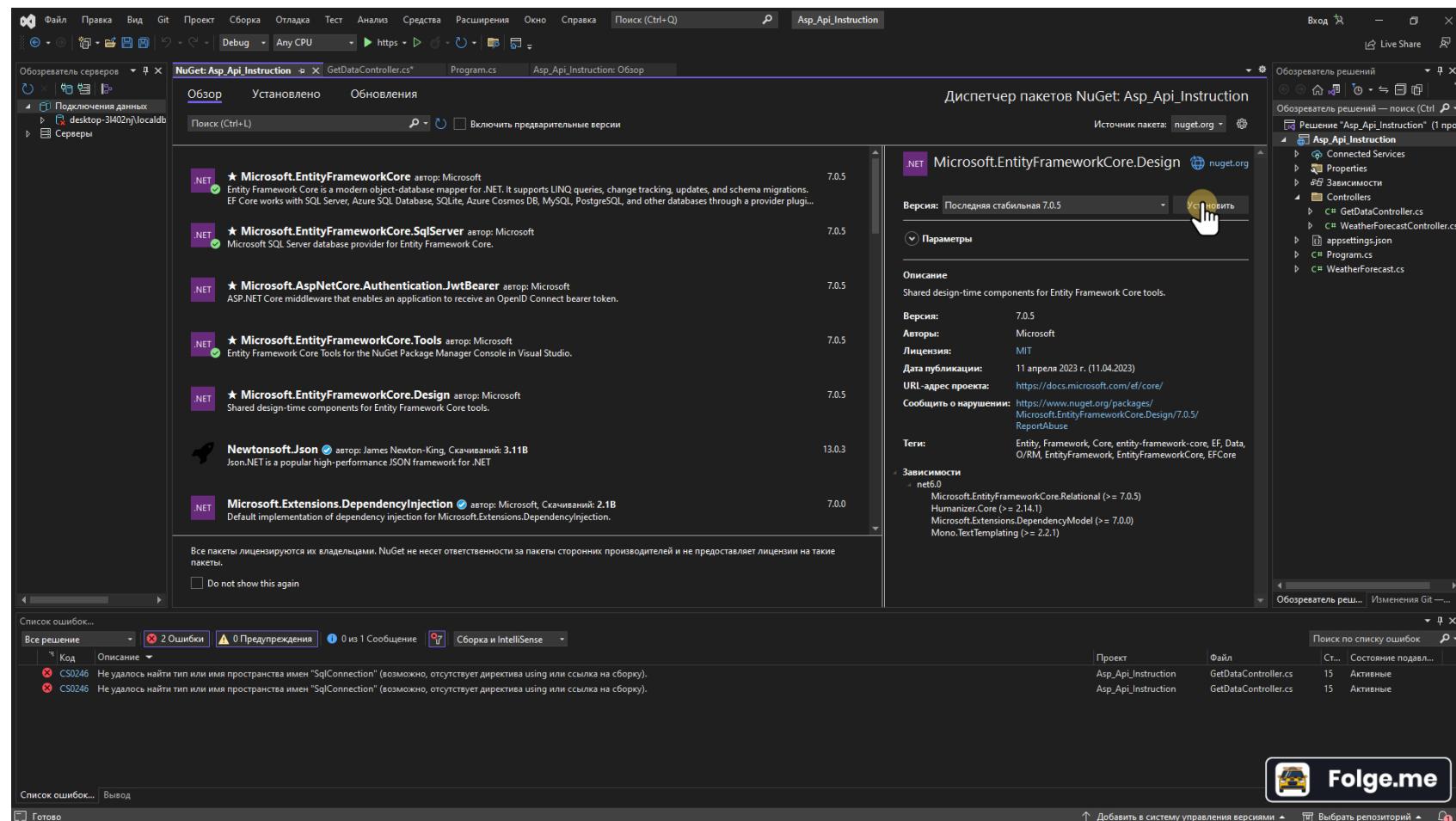


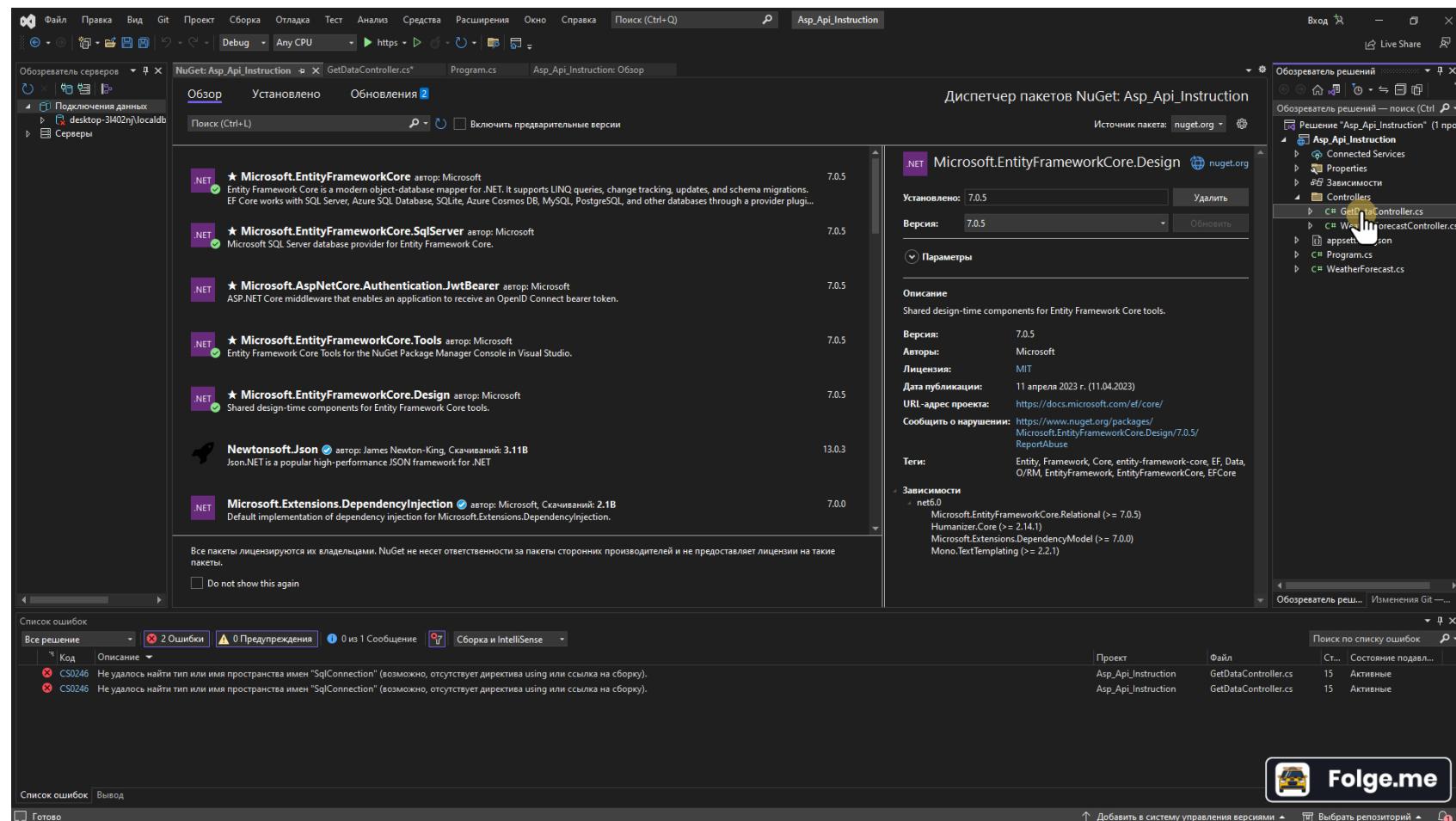












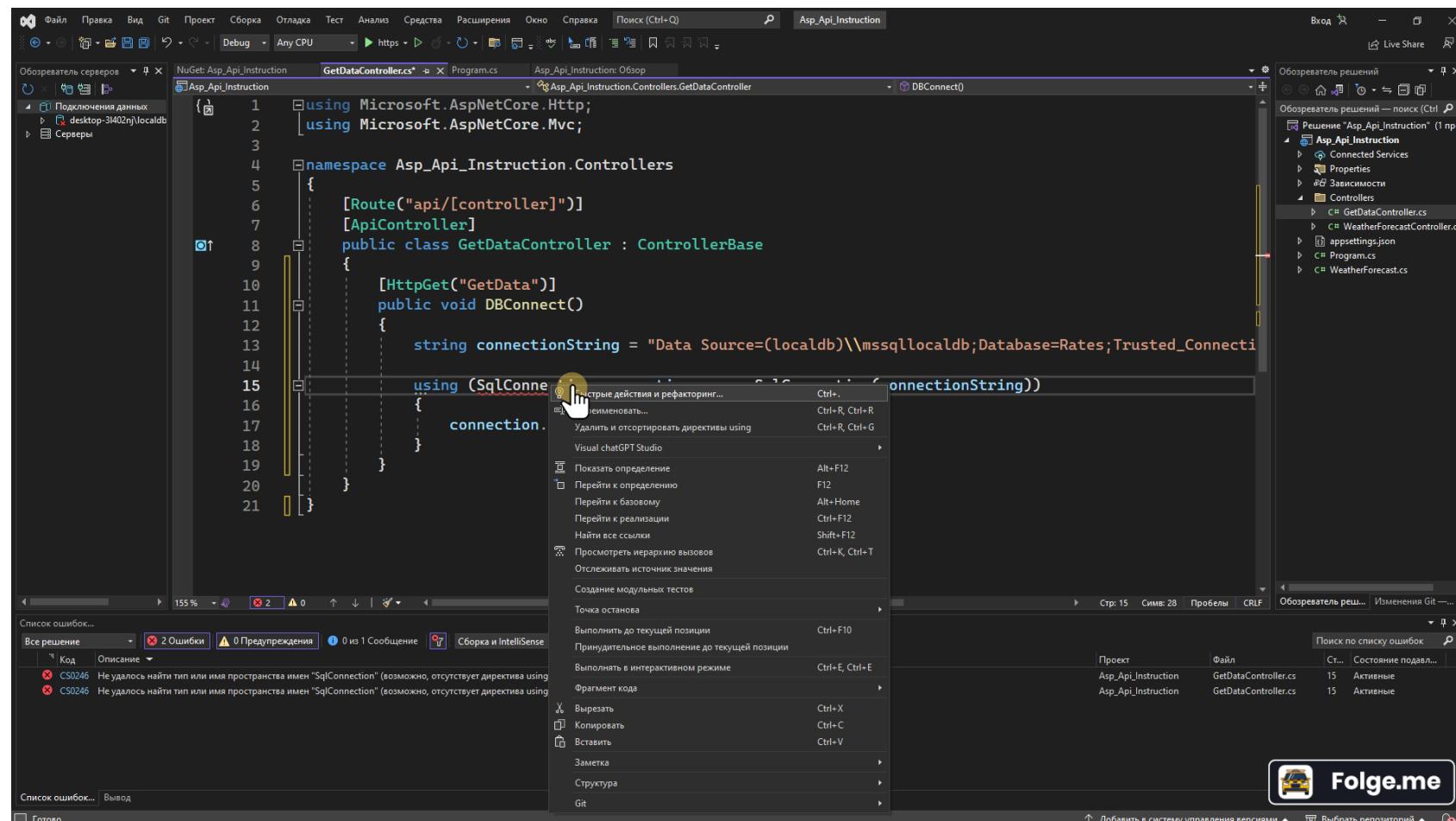
The screenshot shows the Microsoft Visual Studio interface with the following details:

- Code Editor:** Displays the `GetDataController.cs` file under the `Asp_Api_Instruction` project. The code implements an `ApiController` for the `api/[controller]` route. It contains a `[HttpGet("GetData")]` action method named `DBConnect`. Inside this method, a `SqlConnection` object is created and its `Open()` method is called.
- Solution Explorer:** Shows the project structure with files like `Program.cs`, `appsettings.json`, and `WeatherForecastController.cs`.
- Error List:** Shows two CS0246 errors indicating that the type or namespace `SqlConnection` could not be found, likely due to a missing reference.
- Task List:** Shows a single task from `Folge.me` to add the code to version control.

```

1  using Microsoft.AspNetCore.Http;
2  using Microsoft.AspNetCore.Mvc;
3
4  namespace Asp_Api_Instruction.Controllers
5  {
6      [Route("api/[controller]")]
7      [ApiController]
8      public class GetDataController : ControllerBase
9      {
10         [HttpGet("GetData")]
11         public void DBConnect()
12         {
13             string connectionString = "Data Source=(localdb)\\mssqllocaldb;Database=Rates;Trusted_Connection=True";
14
15             using (SqlConnection connection = new SqlConnection(connectionString))
16             {
17                 connection.Open();
18             }
19         }
20     }
21 }

```



The screenshot shows the Microsoft Visual Studio interface with the following details:

- Code Editor:** Displays the `GetDataController.cs` file under the `Asp_Api_Instruction` project. The code implements an `ApiController` for an API endpoint `/api/[controller]`. It includes a `DBConnect()` method that uses `SqlConnection` to connect to a local database.
- Solution Explorer:** Shows the project structure with files like `Program.cs`, `appsettings.json`, and `WeatherForecastController.cs`.
- Error List:** Shows two errors (CS0246) indicating that the type `SqlConnection` could not be found, likely due to a missing reference.
- Task List:** Shows a preview of changes made to the code, including the addition of the `Microsoft.Data.SqlClient` using directive.
- Bottom Bar:** Includes links for "Добавить в систему управления версиями" (Add to version control) and "Выбрать репозиторий" (Select repository), along with a Folge.me logo.

```

1  using Microsoft.AspNetCore.Http;
2  using Microsoft.AspNetCore.Mvc;
3
4  namespace Asp_Api_Instruction.Controllers
5  {
6      [Route("api/[controller]")]
7      [ApiController]
8      public class GetDataController : ControllerBase
9      {
10         [HttpGet("GetData")]
11         public void DBConnect()
12         {
13             string connectionString = "Data Source=(localdb)\mssqllocaldb;Database=Rates;Trusted_Connection=True";
14
15             using (SqlConnection connection = new SqlConnection(connectionString))
16             using (SqlCommand command = new SqlCommand("SELECT * FROM Rates", connection))
17             using (SqlDataReader reader = command.ExecuteReader())
18             {
19                 while (reader.Read())
20                 {
21                     // Process data
22                 }
23             }
24         }
25     }
26 }

```

The screenshot shows the Microsoft Visual Studio IDE interface with the following details:

- Menu Bar:** Файл, Правка, Вид, Git, Проект, Сборка, Отладка, Тест, Анализ, Средства, Расширения, Окно, Справка, Поиск (Ctrl+Q).
- Toolbars:** Standard toolbar with icons for file operations.
- Code Editor:** The main window displays the `GetDataController.cs` file. The code is as follows:

```
1  using Microsoft.AspNetCore.Http;
2  using Microsoft.AspNetCore.Mvc;
3  using Microsoft.Data.SqlClient;
4
5  namespace Asp_Api_Instruction.Controllers
6  {
7      [Route("api/[controller]")]
8      [ApiController]
9      public class GetDataController : ControllerBase
10     {
11         [HttpGet("GetData")]
12         public void DBConnect()
13         {
14             string connectionString = "Data Source=(localdb)\\mssqllocaldb;Database=Rates;Trusted_Connection=True";
15
16             using (SqlConnection connection = new SqlConnection(connectionString))
17             {
18                 connection.Open();
19             }
20         }
21     }
22 }
```

- Solution Explorer:** Shows the project structure for "Asp\_Api\_Instruction" with files like `GetDataController.cs`, `WeatherForecastController.cs`, `appsettings.json`, `Program.cs`, and `WeatherForecast.cs`.
- Task List:** Displays the current tasks: "Список ошибок" (Errors), "Сборка и IntelliSense".
- Status Bar:** Includes "Список ошибок" (Errors), "Добавить в систему управления версиями" (Add to version control), and "Выбрать репозиторий" (Select repository).
- Watermark:** A watermark for "Folge.me" is visible in the bottom right corner.

The screenshot shows the Microsoft Visual Studio interface with the following details:

- Code Editor:** Displays the `GetDataController.cs` file under the project `Asp_Api_Instruction`. The code implements an `ApiController` for an API endpoint `/api/[controller]`. It includes a `DBConnect()` method that opens a connection to a local database.
- Solution Explorer:** Shows the project structure with files like `GetDataController.cs`, `WeatherForecastController.cs`, `appsettings.json`, `Program.cs`, and `WeatherForecast.cs`.
- Task List:** Located at the bottom left, it shows 0 errors, 0 warnings, and 1 message related to build and Intellisense.
- Status Bar:** At the bottom right, there is a watermark for "Folge.me" and navigation links for "Добавить в систему управления версиями" (Add to version control) and "Выбрать репозиторий" (Select repository).