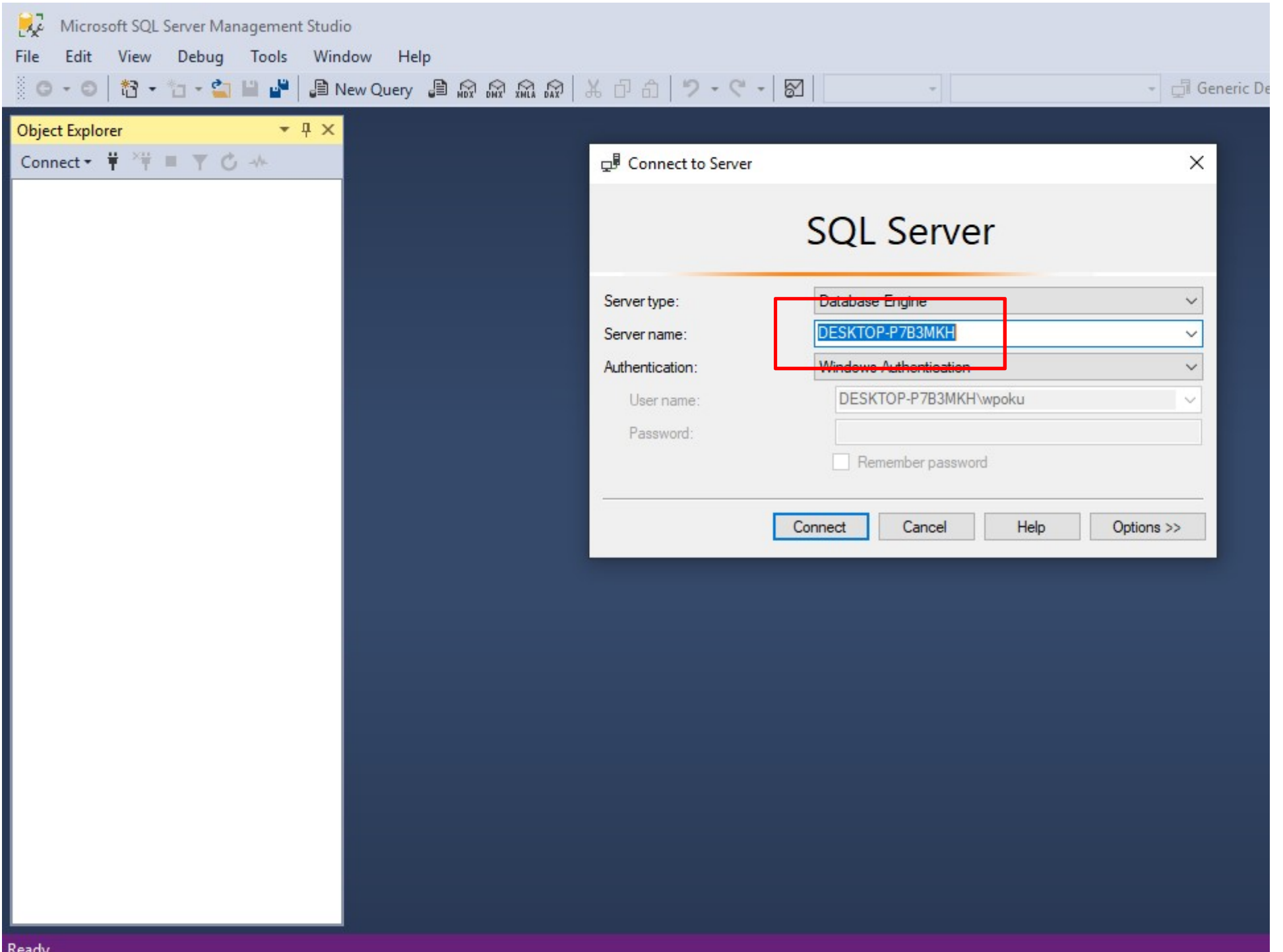


ASP.Net Core - First Application creating database

Add ApplicationDBContext



The image shows a screenshot of the Visual Studio IDE. The main editor window displays the content of the `appsettings.json` file, which is highlighted with a red rectangular box. The JSON content is as follows:

```
{  
  "ConnectionStrings": {  
    "DefaultConnection": "Server=DESKTOP-P7B3MKH;Database=BookListRazor;Trusted_Connection=True;MultipleActiveResultSets=True"  
  },  
  "Logging": {  
    "LogLevel": {  
      "Default": "Warning"  
    }  
  },  
  "AllowedHosts": "*" }  
}
```

On the right side of the IDE, the Solution Explorer is visible, showing a project named "BookList". The file `appsettings.json` is highlighted with a red rectangular box. The status bar at the bottom of the IDE displays the message "Nie znaleziono żadnych problemów" (No problems found).

Plik Edycja Widok Projekt Kompilowanie Debugowanie Test Analiza Wyszuk... BookList

Narzędzia Rozszerzenia Okno Pomoc

Debug Any CPU IIS Express Live Share

Startup.cs* appsettings.json Error.cshtml Index.cshtml.cs Index.cshtml

BookList BookList.Startup ConfigureServices(IServiceCollection serv

```
19 Configuration = configuration;
20 }
21
22 public IConfiguration Configuration { get; }
23
24 // This method gets called by the runtime. Use this method to add services to the container.
25 public void ConfigureServices(IServiceCollection services)
26 {
27     services.AddMvc(options =>
28     {
29         // This lambda determines whether user consent for non-essential cookies is needed for the given request.
30         options.CheckConsentNeeded = context => true;
31         options.MinimumSameSitePolicy = SameSiteMode.None;
32     });
33
34     services.AddDbContext<>
35
36     services.AddMvc().SetCompatibilityVersion(CompatibilityVersion.Version_2_2);
37 }
38
39 // This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
40 public void Configure(IApplicationBuilder app, IHostingEnvironment env)
41 {
42     if (env.IsDevelopment())
43     {
44         app.UseDeveloperExceptionPage();
45     }
46     else
47     {
48         app.UseExceptionHandler("/Error");
49         // The default HSTS value is 30 days. You may want to change this for production.
50         app.UseHsts();
51     }
52
53     app.UseHttpsRedirection();
```

Create data base object

services.AddDbContext<>

Program.cs

Startup.cs

100% 3 0

Gotowe Lin 34 Kol 35 Zn 35 INS Dodaj do kontroli źródła

ja Widok Projekt Kompilowanie Debugowanie Test Analiza Wyszuk... BookList WP

Rozszerzenia Okno Pomoc

Debug Any CPU IIS Express Live Share

appsettings.json Error.cshtml BookList

```
Configuration = confi
}
}

public IConfiguration Con

// This method gets calle
public void ConfigureServ
{
    services.Configure<Co
    {
        // This lambda de
        options.CheckCons
        options.MinimumSa
    });

    services.AddDbContext
    services.AddMvc().Set
}

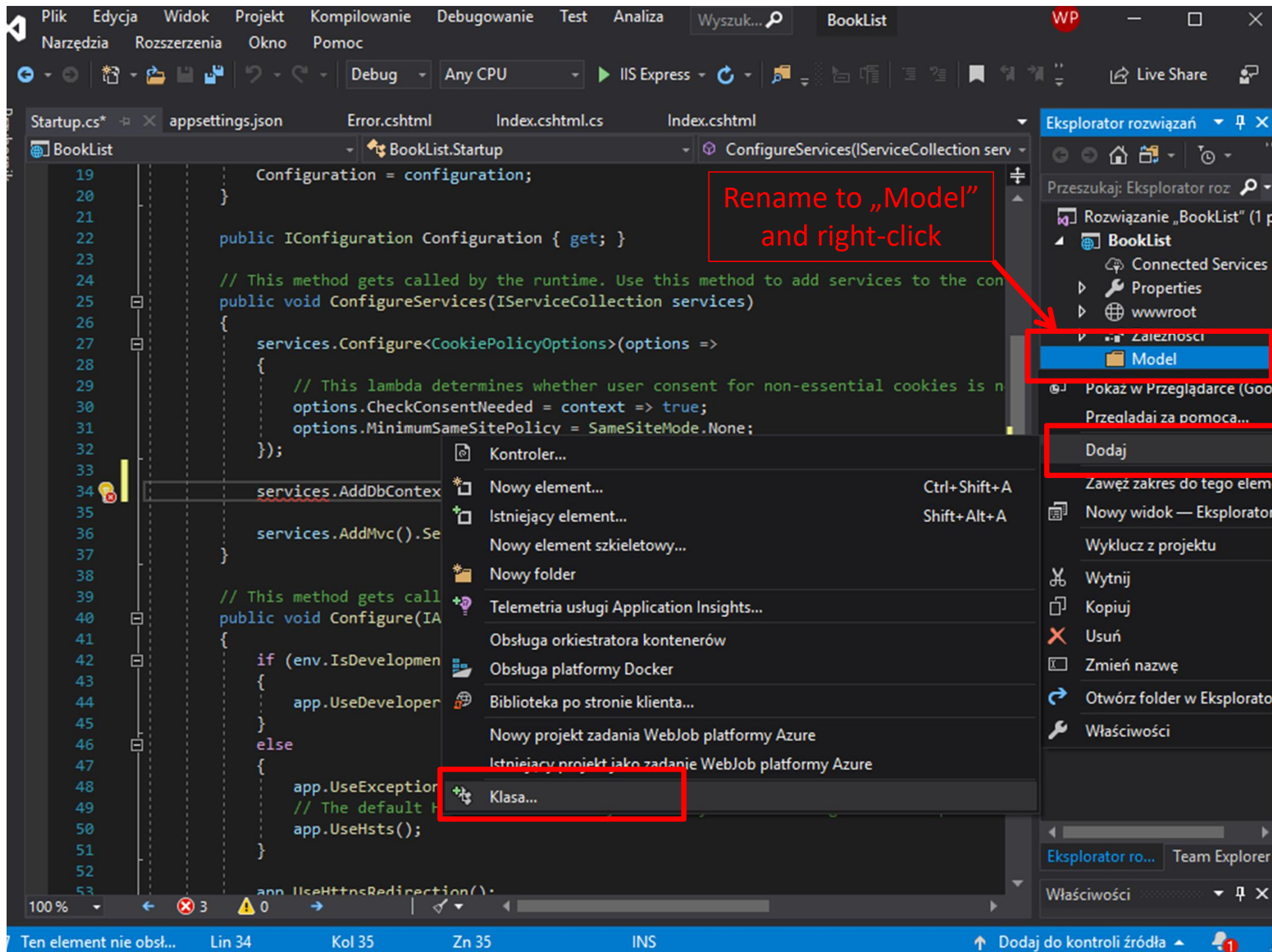
// This method gets called by the runtime. Use this method to configure the HTTP requ
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Error");
        // The default HSTS value is 30 days. You may want to change this for product
        app.UseHsts();
    }

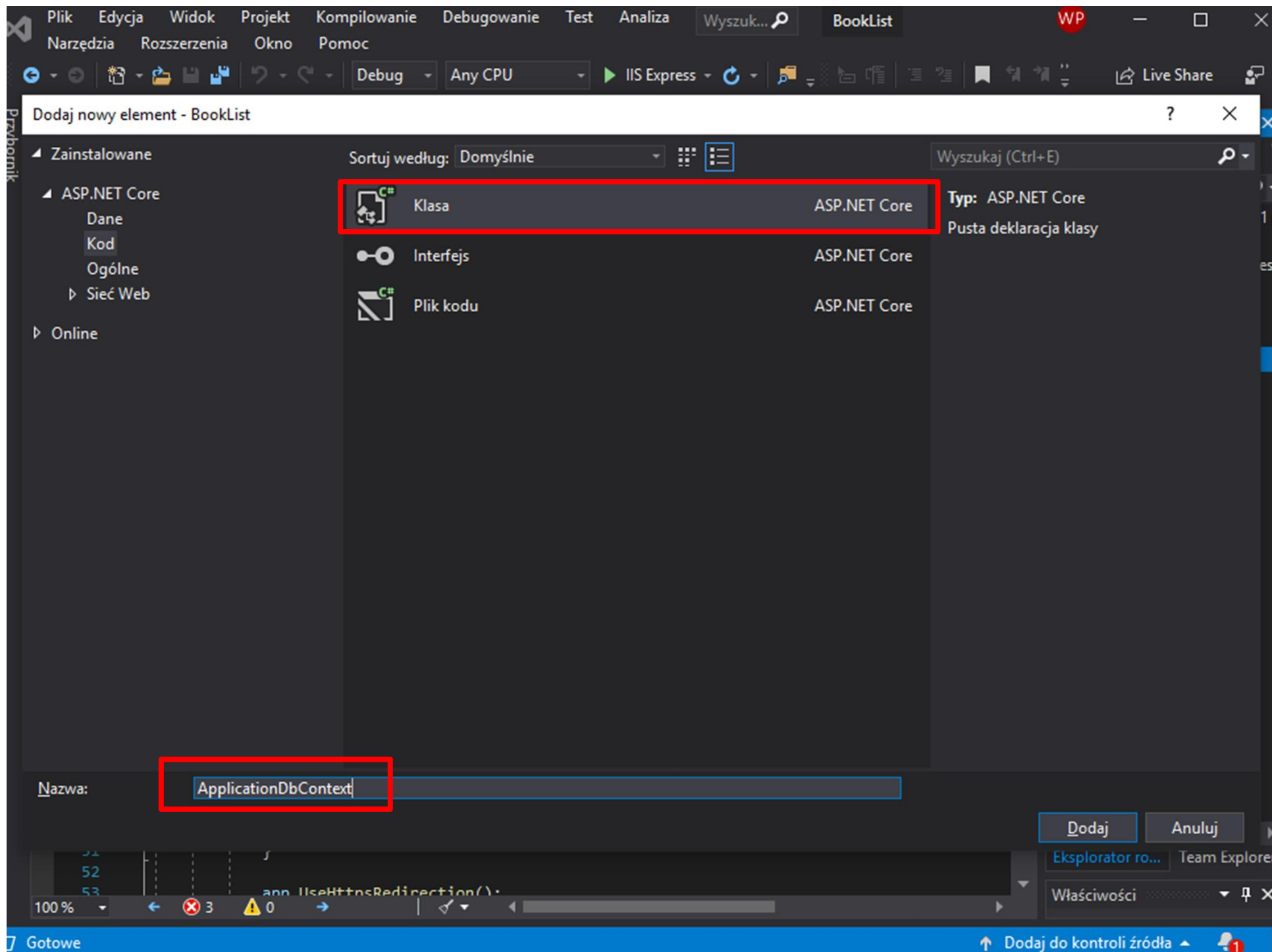
    app.UseHttpsRedirection();
}
```

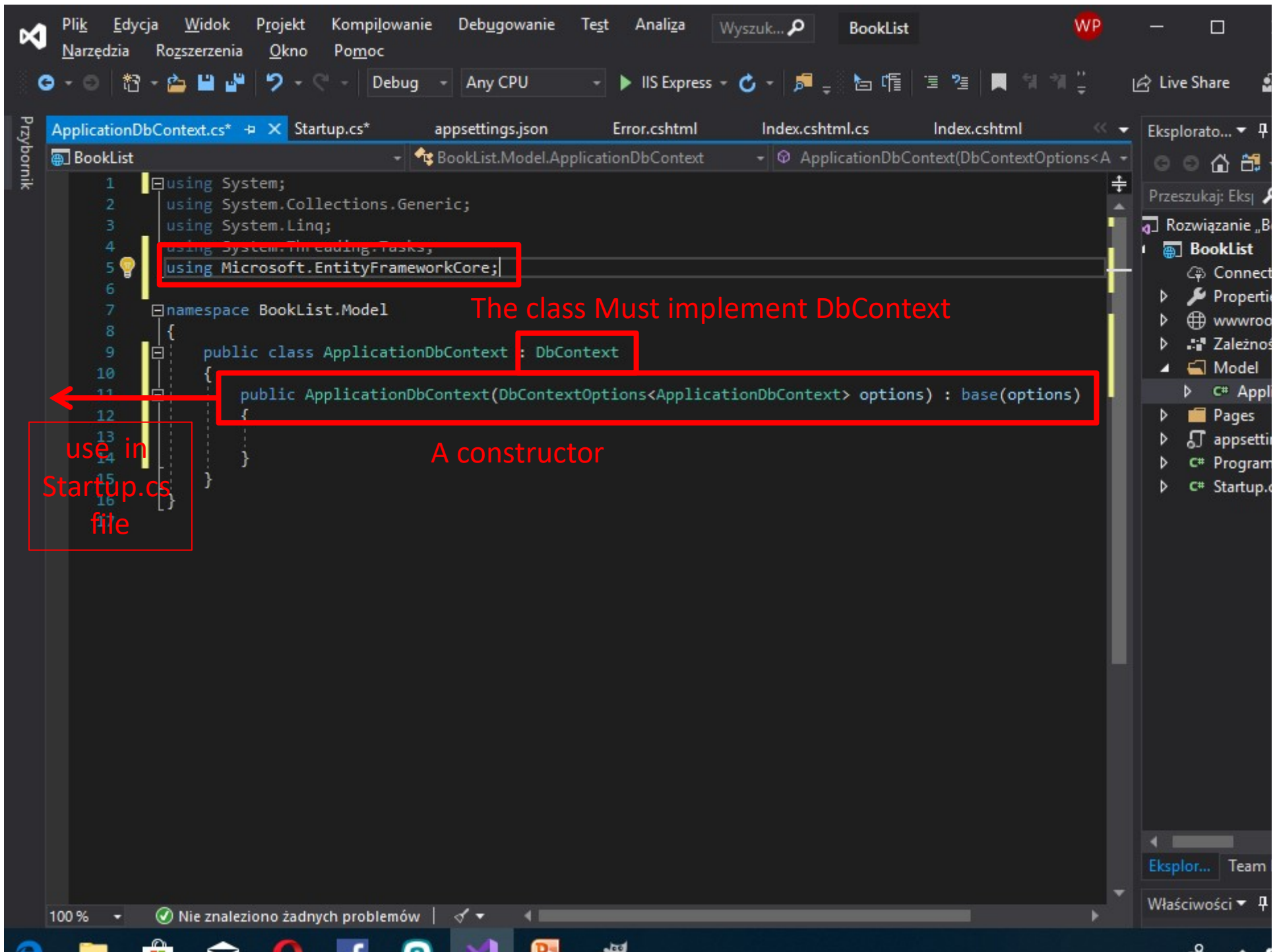
Obszar...
Nowy element... Ctrl+Shift+A
Istniejący element... Shift+Alt+A
Nowy element szkieletowy
Nowy folder
Telemetria usługi Application Insights...
Obsługa orkiestratora kontenerów
Obsługa platformy Docker
Biblioteka po stronie klienta...
Nowy projekt zadania WebJob platformy Azure
Istniejący projekt jako zadanie WebJob platformy Azure
Odwołanie...
Usługa połączona
Klasa...

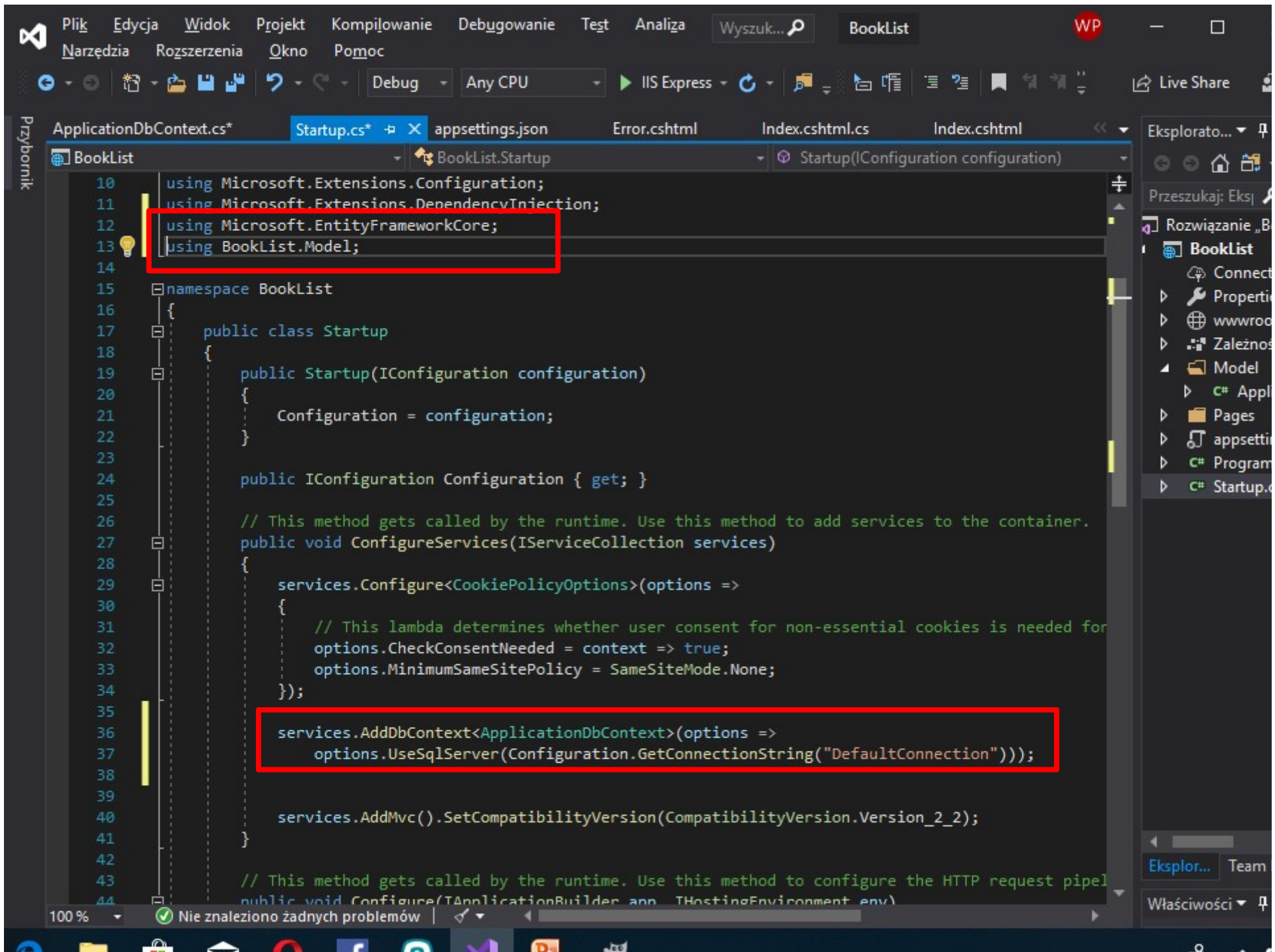
Eksplorator rozwiązań
Kompiluj
Kompiluj ponownie
Wyczyść
Wyświetl
Analizuj
Pakuj
Publikuj...
Przegląd
Zawęż zakres do tego elementu
Nowy widok — Eksplorator rozwiązań
Zagnieżdżanie plików
Edytuj element BookList.csproj
Dodaj
Zarządzaj pakietami NUGET...
Zarządzaj bibliotekami po stronie klienta...
Zarządzaj kluczami tajnymi użytkownika
Ustaw jako projekt startowy
Debuguj
Kontrola źródła (S)
Wytnij
Usuń
Zmień nazwę
Zwolnij projekt
Załaduj zależności projektu
Otwórz folder w Eksploratorze plików
Właściwości

Lin 34 Kol 35 Zn 35 INS Dodaj

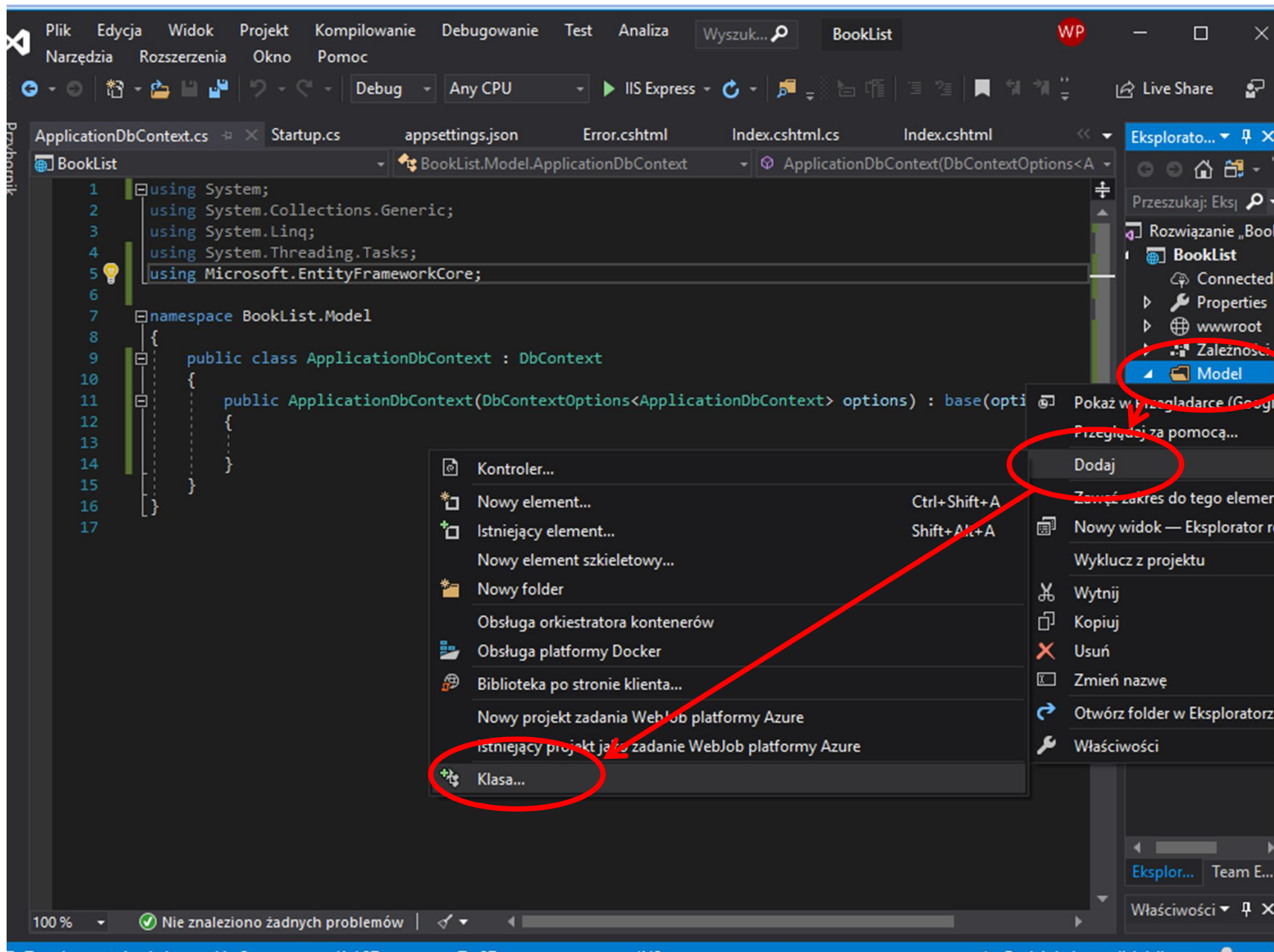








Create table in DataBase



Plik Edycja Widok Projekt Kompilowanie Debugowanie Test Analiza Wyszuk... BookList WP

Narzędzia Rozszerzenia Okno Pomoc

Debug Any CPU IIS Express Live Share

Dodaj nowy element - BookList

Sortuj według: Domyślnie Wyszukaj (Ctrl+E)

- Klasa** ASP.NET Core
Typ: ASP.NET Core
Pusta deklaracja klasy
- Interfejs ASP.NET Core
- Plik kodu ASP.NET Core

Nazwa:

Dodaj Anuluj

100% Nie znaleziono żadnych problemów

Gotowe Dodaj do kontroli źródła

The image shows a screenshot of the Visual Studio IDE. The main window displays the code for `Book.cs` in the `BookList.Model` namespace. The code defines a `Book` class with the following properties:

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using System.ComponentModel.DataAnnotations;
6
7 namespace BookList.Model
8 {
9     public class Book
10    {
11        [Key]
12        public int Id { get; set; }
13
14        [Required]
15        [Display(Name = "Book Name")]
16        public string Name { get; set; }
17
18        public string ISBN { get; set; }
19
20        public string Author { get; set; }
21    }
22 }
23
24
```

Annotations are highlighted with a red box, and arrows point to them from a red text box. The text box contains the text: "Properties will be attributes in our new database table".

The right-hand side of the image shows the Solution Explorer (Eksplorator rozwiązań) with the project structure for `BookList`. The `Book.cs` file is highlighted in blue. A red box is drawn around the `Book.cs` file name in the Solution Explorer.

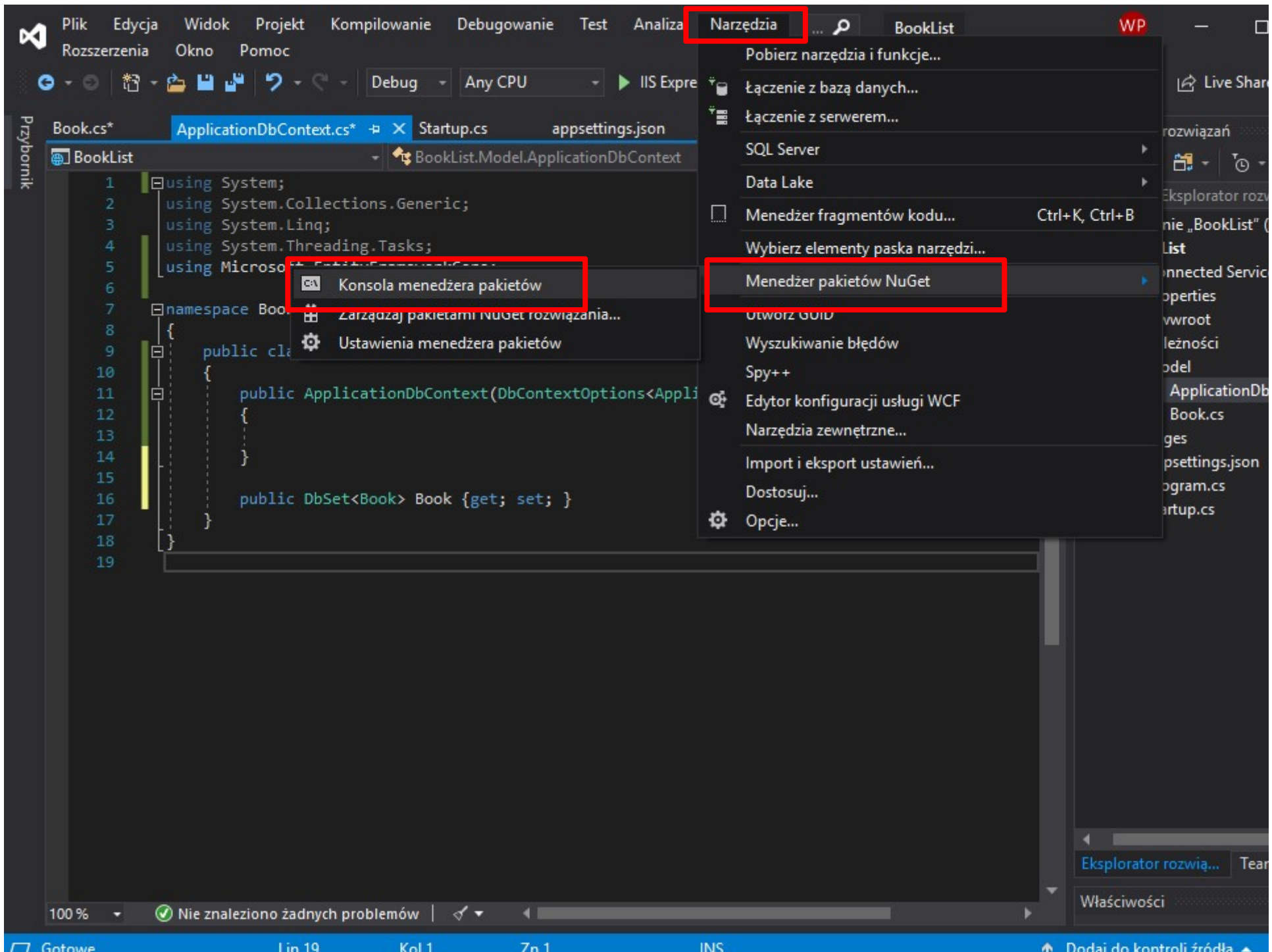
The status bar at the bottom indicates "100%" zoom and "Nie znaleziono żadnych problemów" (No problems found).

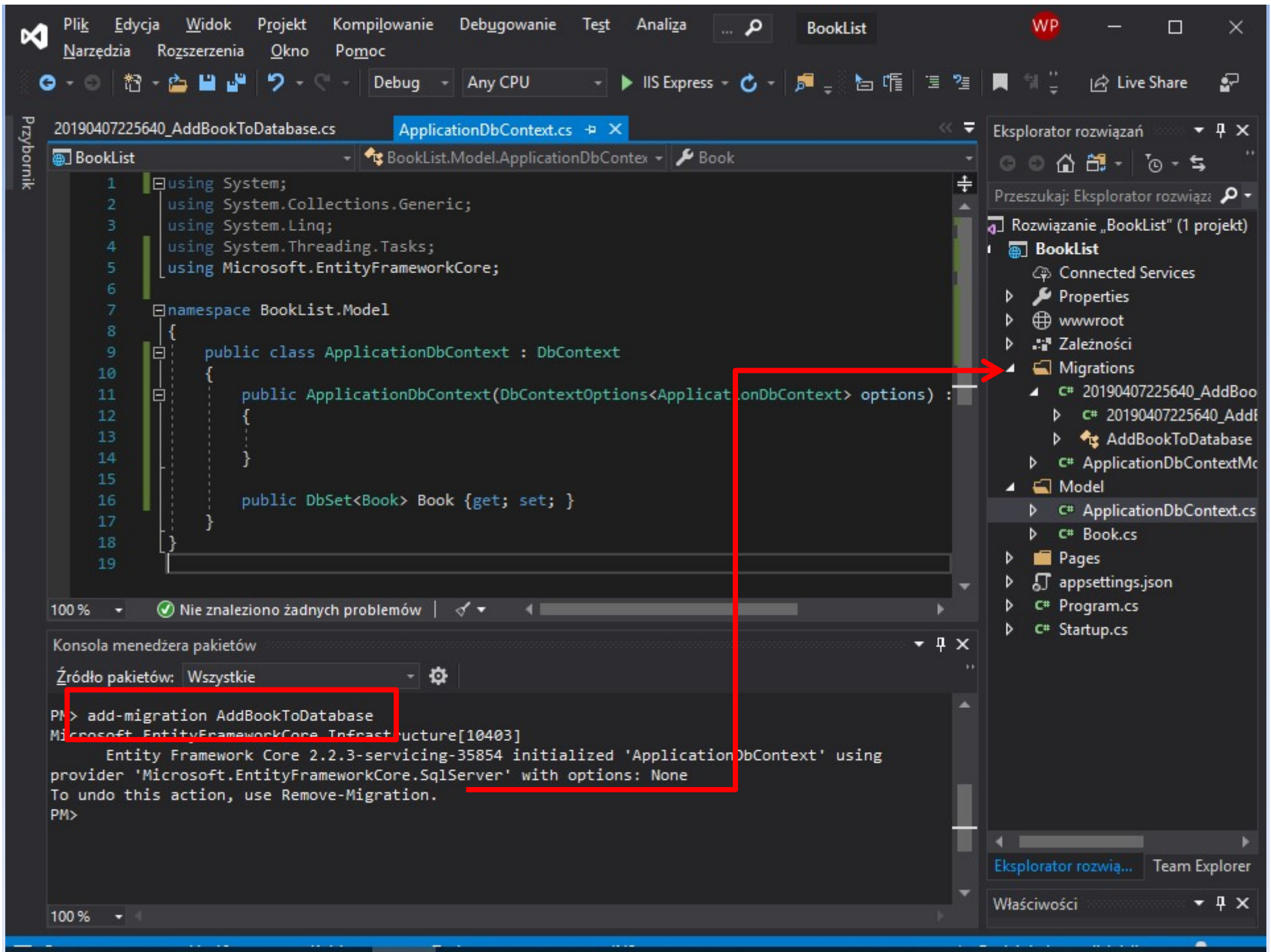
The image shows a screenshot of the Visual Studio IDE. The main editor window displays the code for `ApplicationDbContext.cs` within the `BookList.Model` namespace. The code includes several using statements and a class definition for `ApplicationDbContext` that inherits from `DbContext`. A property `Book` of type `DbSet<Book>` is defined with `{get; set; }` accessors. A red box highlights this property definition, and a red arrow points from a text box to it. The text box contains the text: "Properties will be tables in our database".

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using Microsoft.EntityFrameworkCore;
6
7 namespace BookList.Model
8 {
9     public class ApplicationDbContext : DbContext
10    {
11        public ApplicationDbContext(DbContextOptions<ApplicationDbContext> options) :
12        {
13        }
14
15        public DbSet<Book> Book {get; set; }
16    }
17 }
18
19
```

The Solution Explorer on the right shows the project structure for "BookList". Under the "Model" folder, the files `C# ApplicationDbContext.cs` and `C# Book.cs` are listed, with `ApplicationDbContext.cs` highlighted by a red box.

100% Nie znaleziono żadnych problemów | Gotowe Lin 19 Kol 1 Zn 1 INS Dodaj do kontroli źródła





Visual Studio interface showing a C# migration class and the Solution Explorer.

```
1 using Microsoft.EntityFrameworkCore.Metadata;
2 using Microsoft.EntityFrameworkCore.Migrations;
3
4 namespace BookList.Migrations
5 {
6     public partial class AddBookToDatabase : Migration
7     {
8         protected override void Up(MigrationBuilder migrationBuilder)
9         {
10             migrationBuilder.CreateTable(
11                 name: "Book",
12                 columns: table => new
13                 {
14                     Id = table.Column<int>(nullable: false)
15                         .Annotation("SqlServer:ValueGenerationStrategy", SqlSe
16                     Name = table.Column<string>(nullable: false),
17                     ISBN = table.Column<string>(nullable: true),
18                     Author = table.Column<string>(nullable: true)
19                 },
20                 constraints: table =>
21                 {
22                     table.PrimaryKey("PK_Book", x => x.Id);
23                 });
24         }
25
26         protected override void Down(MigrationBuilder migrationBuilder)
27         {
28             migrationBuilder.DropTable(
29                 name: "Book");
30         }
31     }
32 }
33
```

Solution Explorer: BookList > Migrations > C# 20190407225640_AddBookToDatabase.cs (highlighted with a red box and arrow)

100% Nie znaleziono żadnych problemów

Plik Edycja Widok Projekt Kompilowanie Debugowanie Test Analiza Wyszukaj... BookList WP

Narzędzia Rozszerzenia Okno Pomoc

Debug Any CPU IIS Express Live Share

20190407225640_AddBookToDatabase.cs ApplicationDbContext.cs appsettings.json*

BookList BookList.Migrations.AddBookToDatabase Up(MigrationBuilder migrationBuilder)

```
1 using Microsoft.EntityFrameworkCore.Metadata;
2 using Microsoft.EntityFrameworkCore.Migrations;
3
4 namespace BookList.Migrations
5 {
6     public partial class AddBookToDatabase : Migration
7     {
8         protected override void Up(MigrationBuilder migrationBuilder)
9         {
10             migrationBuilder.CreateTable(
11                 name: "Book",
12                 columns: table => new
13                 {
14                     Id = table.Column<int>(nullable: false)
15                         .Annotation("SqlServer:ValueGenerationStrategy", SqlServerValueGenerationStrategy.IdentityColumn),
16                     Name = table.Column<string>(nullable: false),
17                     ISBN = table.Column<string>(nullable: true),
18                     Author = table.Column<string>(nullable: true)
19                 },
20                 constraints: table =>
```

Przybornik

Eksplorator rozwi... Przeszukaj: Eksplorato

związanie „BookList” (1

BookList

- Connected Services
- Properties
- wwwroot
- Zależności
- Migrations
 - C# 20190407225640
 - C# 20190407225
 - AddBookToD
 - ApplicationDbC
 - Model
 - ApplicationDbC
 - Book.cs
 - Pages
 - appsettings.json
 - Program.cs
 - Startup.cs

100 % Nie znaleziono żadnych problemów

Konsola menedżera pakietów

Źródło pakietów: Wszystkie Projekt domyślny: BookList

```
PM> add-migration AddBookToDatabase
Microsoft.EntityFrameworkCore.Infrastructure[10403]
Entity Framework Core 2.2.3-servicing-35854 initialized 'ApplicationDbContext' using provider
'Microsoft.EntityFrameworkCore.SqlServer' with options: None
To undo this action, use Remove-Migration.
PM> update-database
```

100 %

Eksplorator... Team B

Właściwości

Visual Studio interface showing a C# migration class and its execution in the Package Manager Console.

Code Editor: `20190407225640_AddBookToDatabase.cs`

```
1 using Microsoft.EntityFrameworkCore.Metadata;
2 using Microsoft.EntityFrameworkCore.Migrations;
3
4 namespace BookList.Migrations
5 {
6     public partial class AddBookToDatabase : Migration
7     {
8         protected override void Up(MigrationBuilder migrationBuilder)
9         {
10             migrationBuilder.CreateTable(
11                 name: "Book",
12                 columns: table => new
13                 {
14                     Id = table.Column<int>(nullable: false)
15                         .Annotation("SqlServer:ValueGenerationStrategy", SqlServerValueGenerationStrategy.IdentityColumn),
16                     Name = table.Column<string>(nullable: false),
17                     ISBN = table.Column<string>(nullable: true),
18                     Author = table.Column<string>(nullable: true)
19                 },
20                 constraints: table =>
```

Package Manager Console:

```
Microsoft.EntityFrameworkCore.Database.Command[20101]
  Executed DbCommand (36ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
  INSERT INTO [__EFMigrationsHistory] ([MigrationId], [ProductVersion])
  VALUES (N'20190407225640_AddBookToDatabase', N'2.2.3-servicing-35854');
```

Done.
PM>

Explorer: BookList > Migrations > 20190407225640_AddBookToDatabase

