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Example 11: ASP.NET Core Reusable Middleware Demo

Learning Outcomes:

1. **Learning Outcome 1**
2. **Learning Outcome 2**

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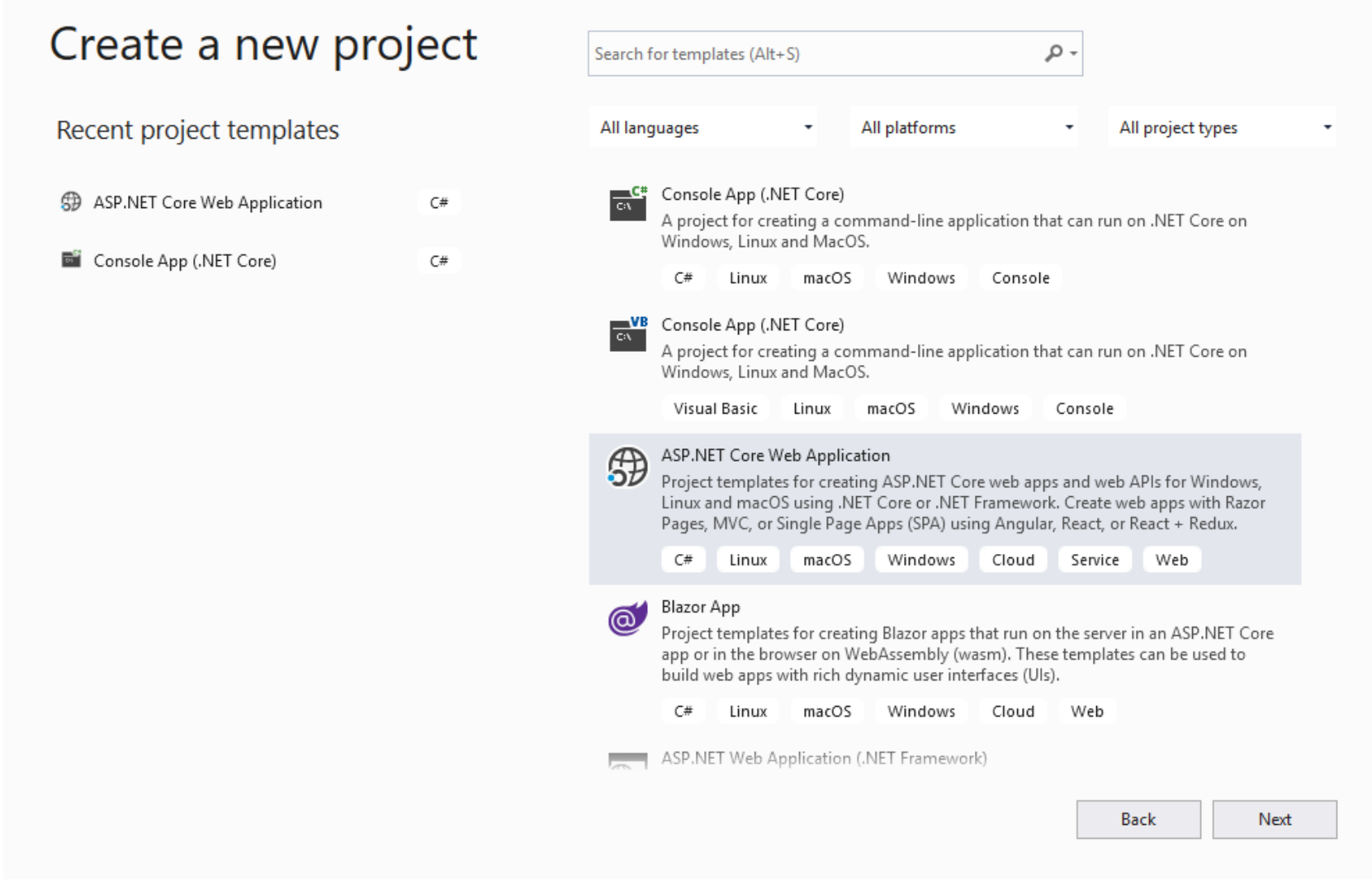

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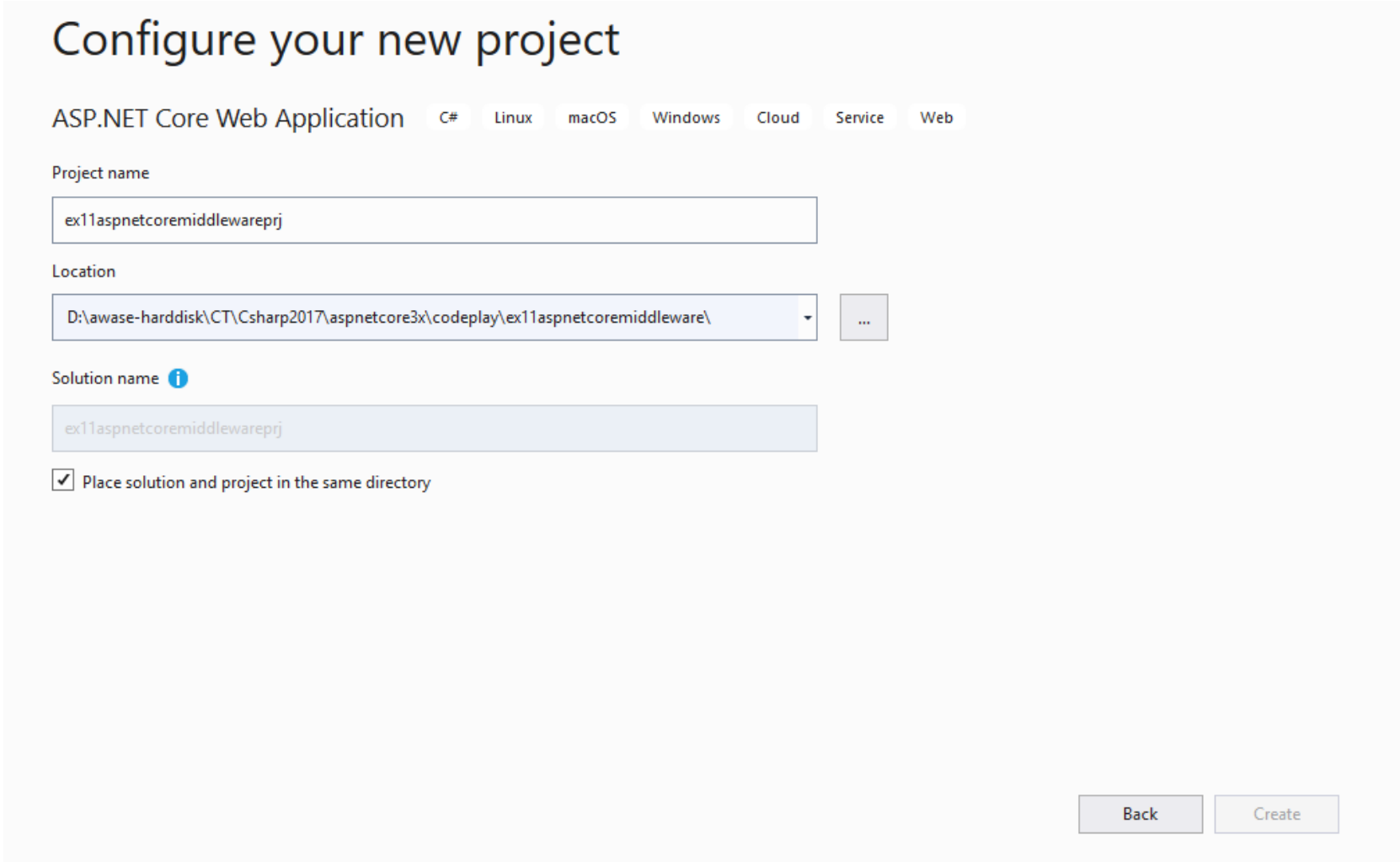

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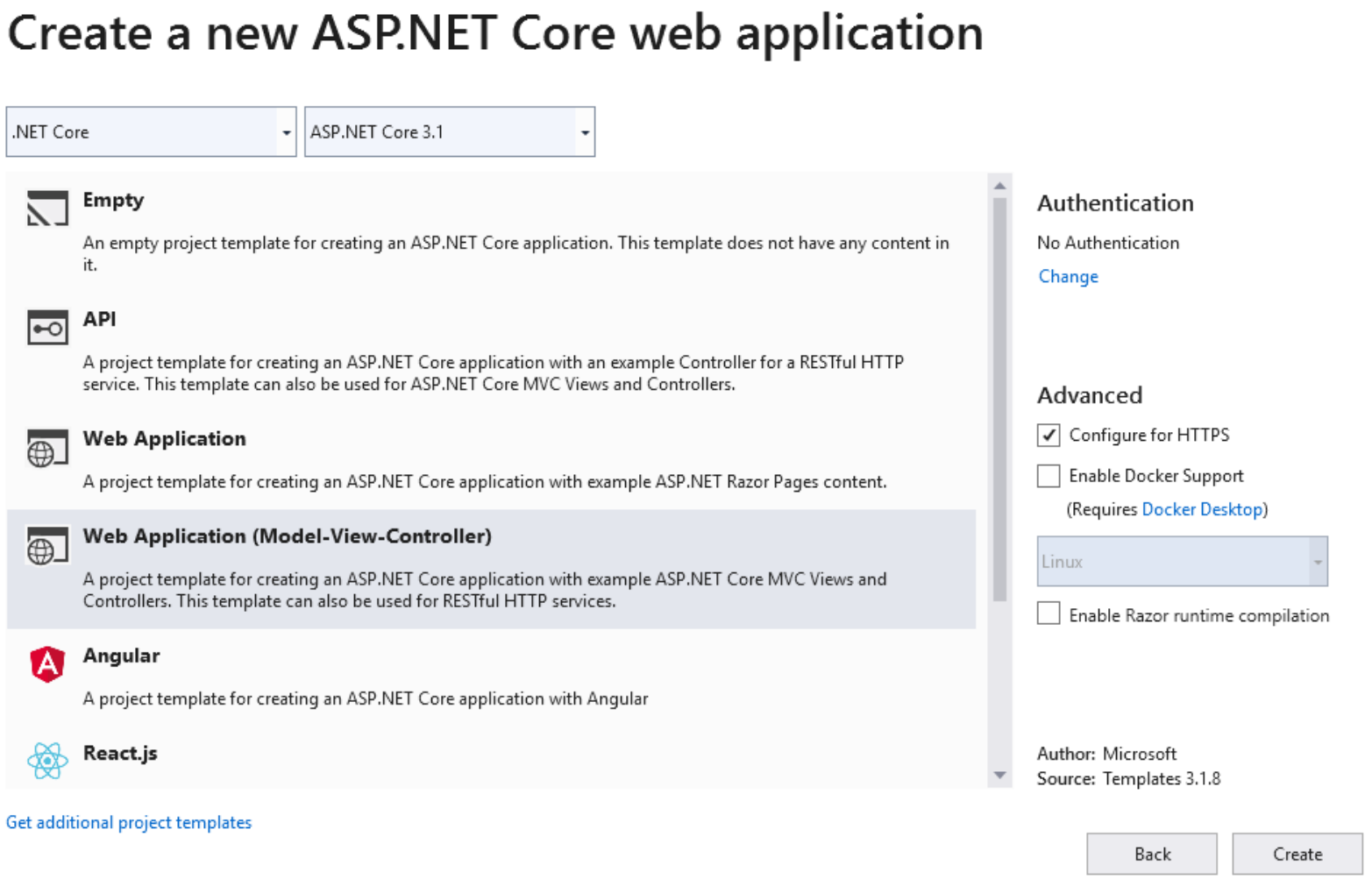

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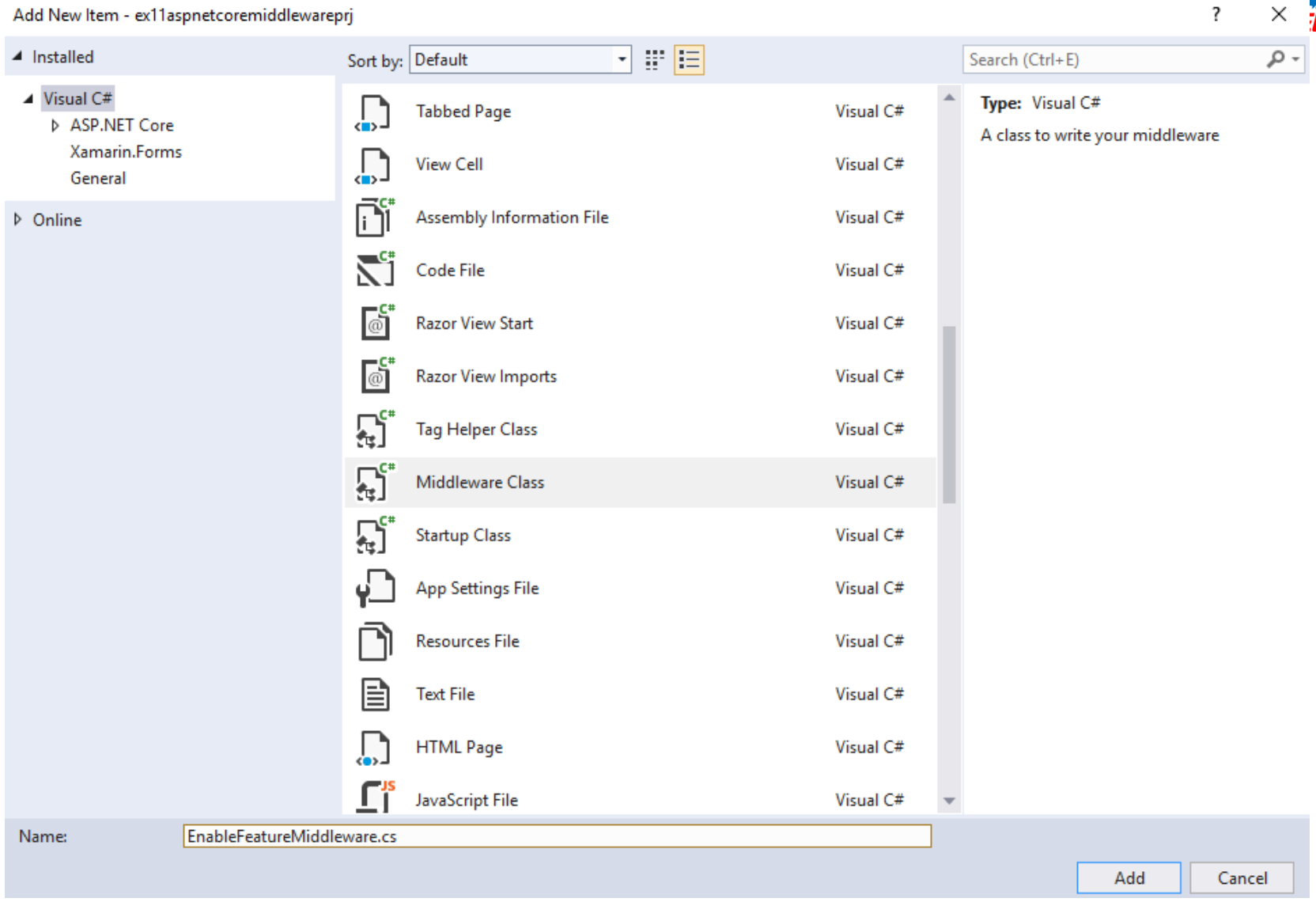

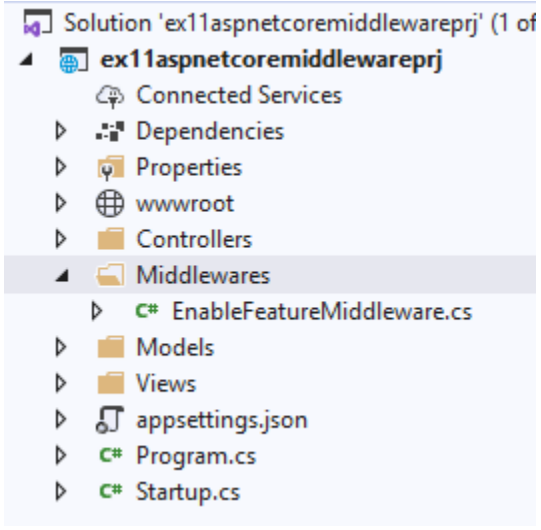

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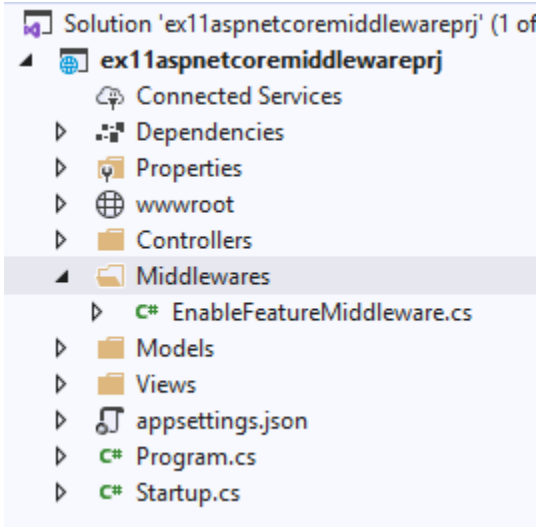


```
// You may need to install the Microsoft.AspNetCore.Http.Abstractions package into your project
3 references
public class EnableFeatureMiddleware
{
    private readonly RequestDelegate _next;

    0 references
    public EnableFeatureMiddleware(RequestDelegate next)
    {
        _next = next;
    }

    0 references
    public async Task Invoke(HttpContext httpContext,IConfiguration config)
    {
        //step 1
        if (httpContext.Request.Path.Value.Contains("/enable"))
        {
            var features = config.GetSection("EnableFeatures");
            var displayFeatures = features.GetChildren().Select(x => $"{x.Key}:{x.Value}");
            await httpContext.Response.WriteAsync(string.Join("\n", displayFeatures));
        }
        else
        {
            await _next(httpContext);
        }
    }
}
```

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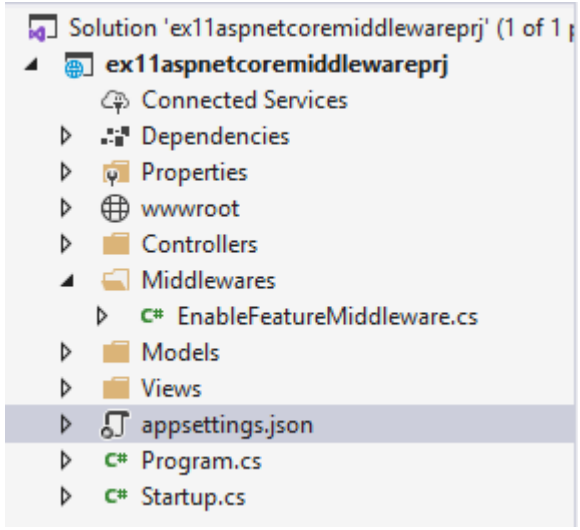

Schema: https://json.schemastore.org/appsettings

```
{
  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft": "Warning",
      "Microsoft.Hosting.Lifetime": "Information"
    }
  },
  "mailSettings": {
    "smtp": {
      "deliveryMethod": "SpecifiedPickupDirectory",
      "specifiedPickupDirectory": {
        "pickupDirectoryLocation": "C:\\folder"
      }
    }
  },
  "EnableFeatures": {
    "Email": true,
    "SignUp": true,
    "Locations": true,
    "twitter": false,
    "facebook": false,
    "bookmarks": true
  },
  "AllowedHosts": "*"
}
```

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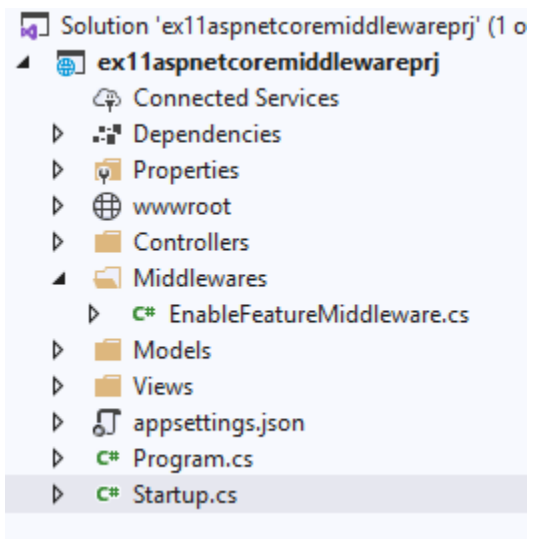

ex11aspnetcoremiddlewareprj | ex11aspnetcoremiddlewareprj.Startup | Configure(IApplicationBuilder app, IWebH

```
// This method gets called by the runtime. Use this method to configure the HTTP request
0 references
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{

    app.UseMiddleware<EnableFeatureMiddleware>();

    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    else
    {
        app.UseExceptionHandler("/Home/Error");
        // The default HSTS value is 30 days. You may want to change this for production
        app.UseHsts();
    }
    app.UseHttpsRedirection();
    app.UseStaticFiles();

    app.UseRouting();

    app.UseAuthorization();
```

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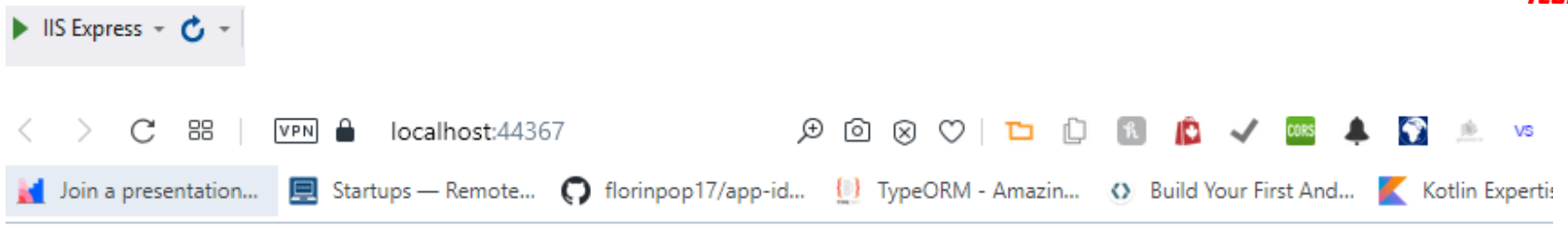

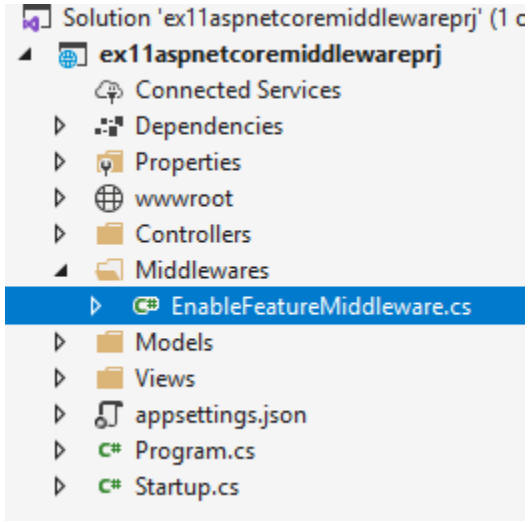

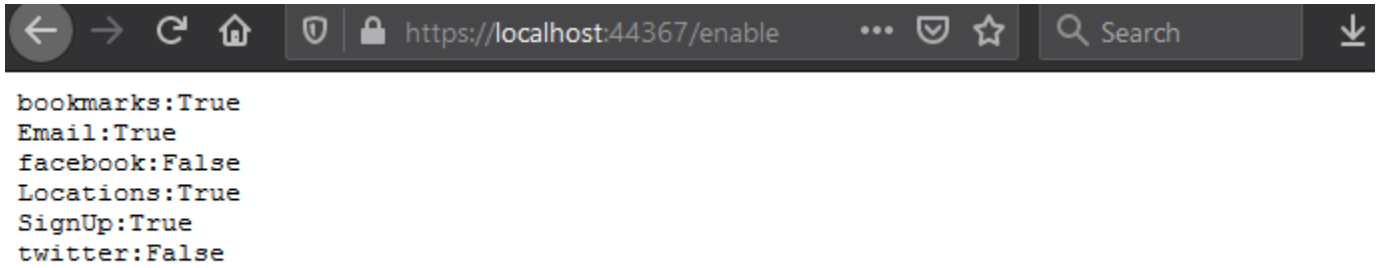

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Example 12: ASP.NET Core Razor Web Application CRUD

Learning Outcomes:

1. **Learning Outcome 1**
2. **Learning Outcome 2**

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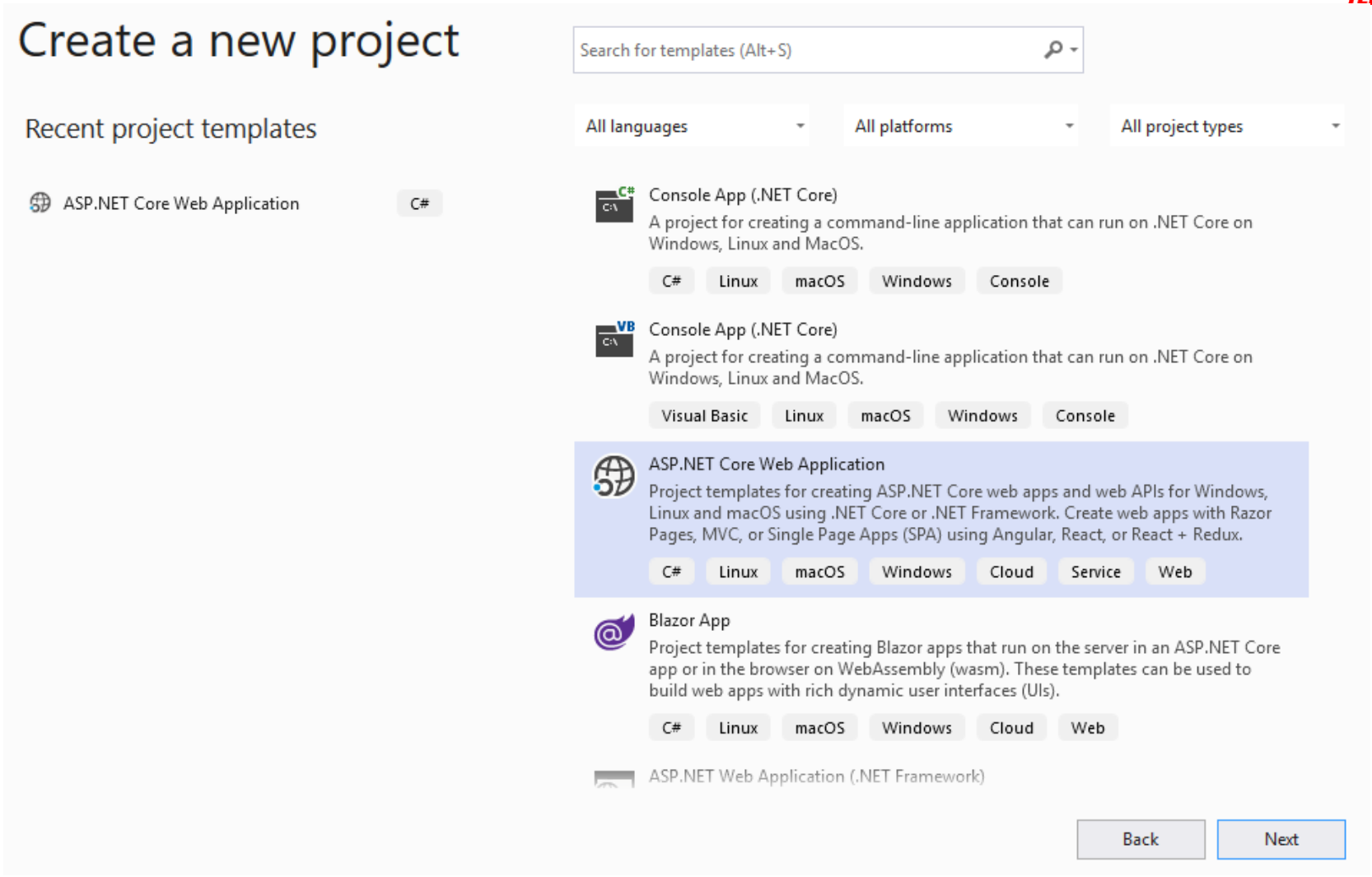

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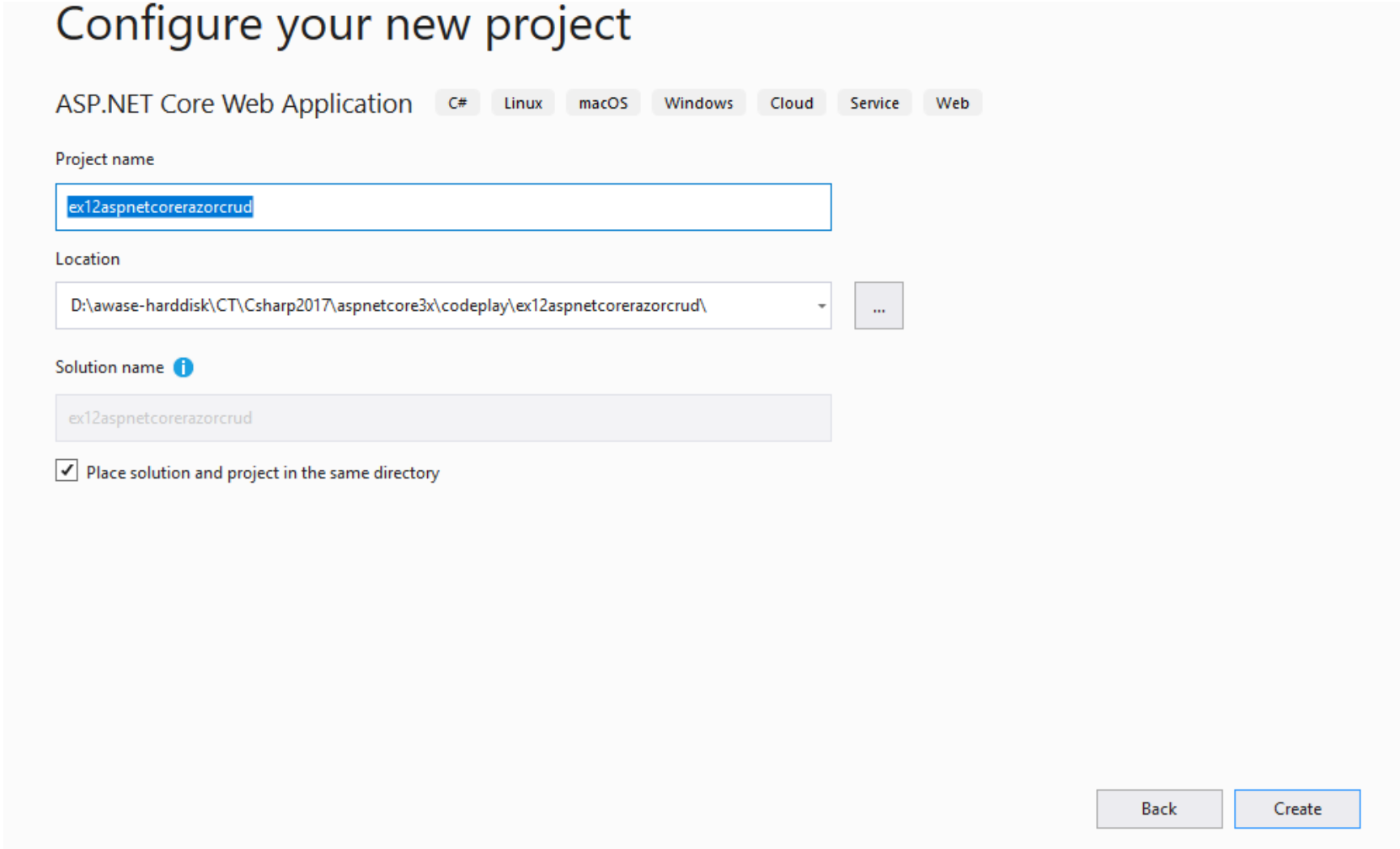

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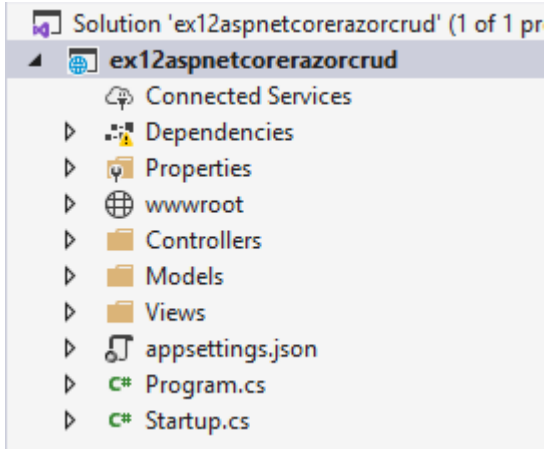

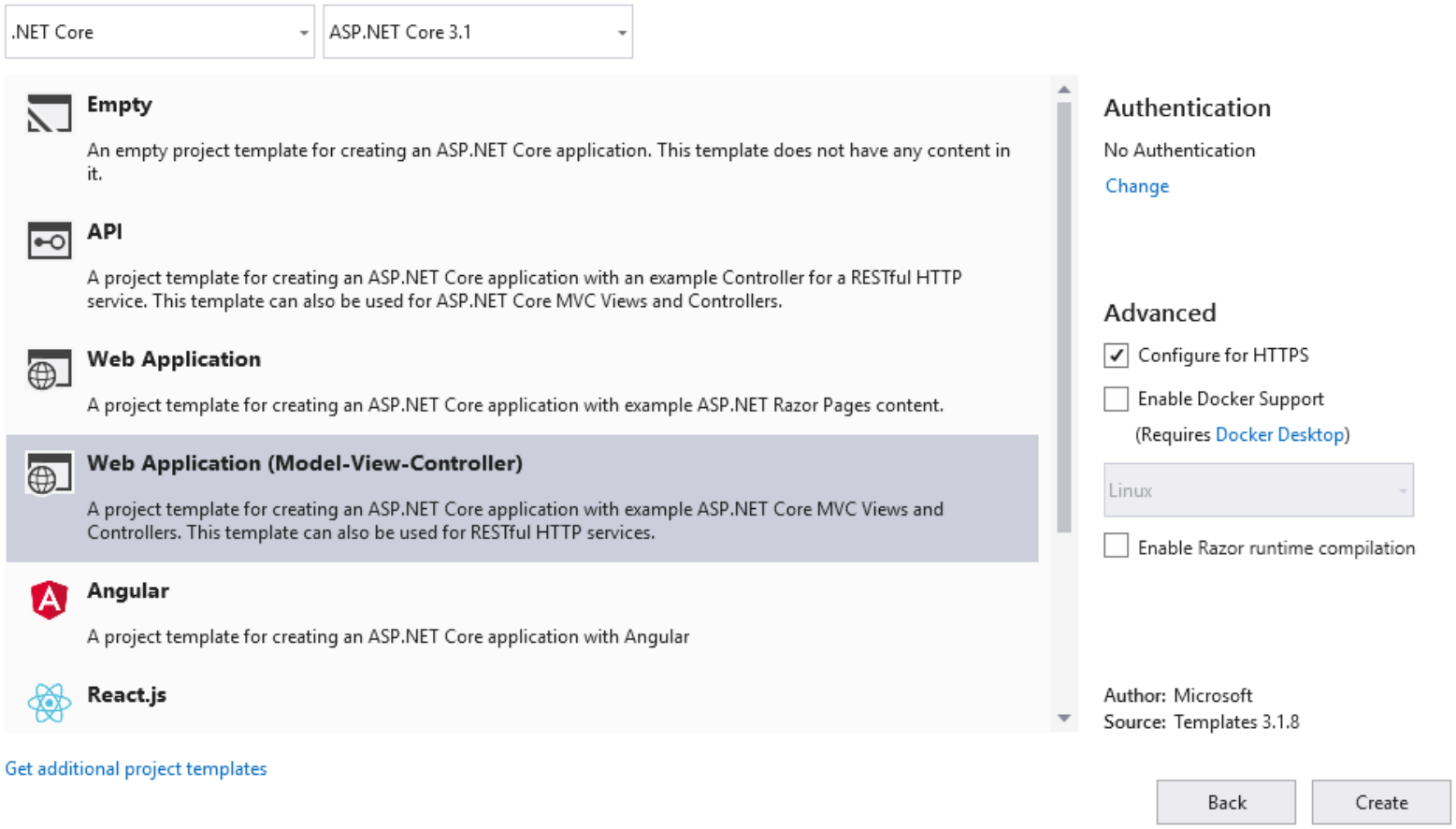

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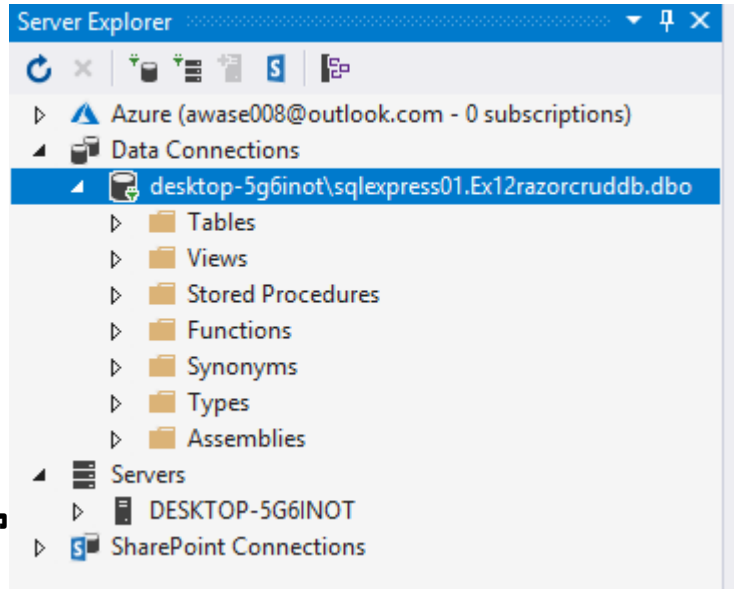
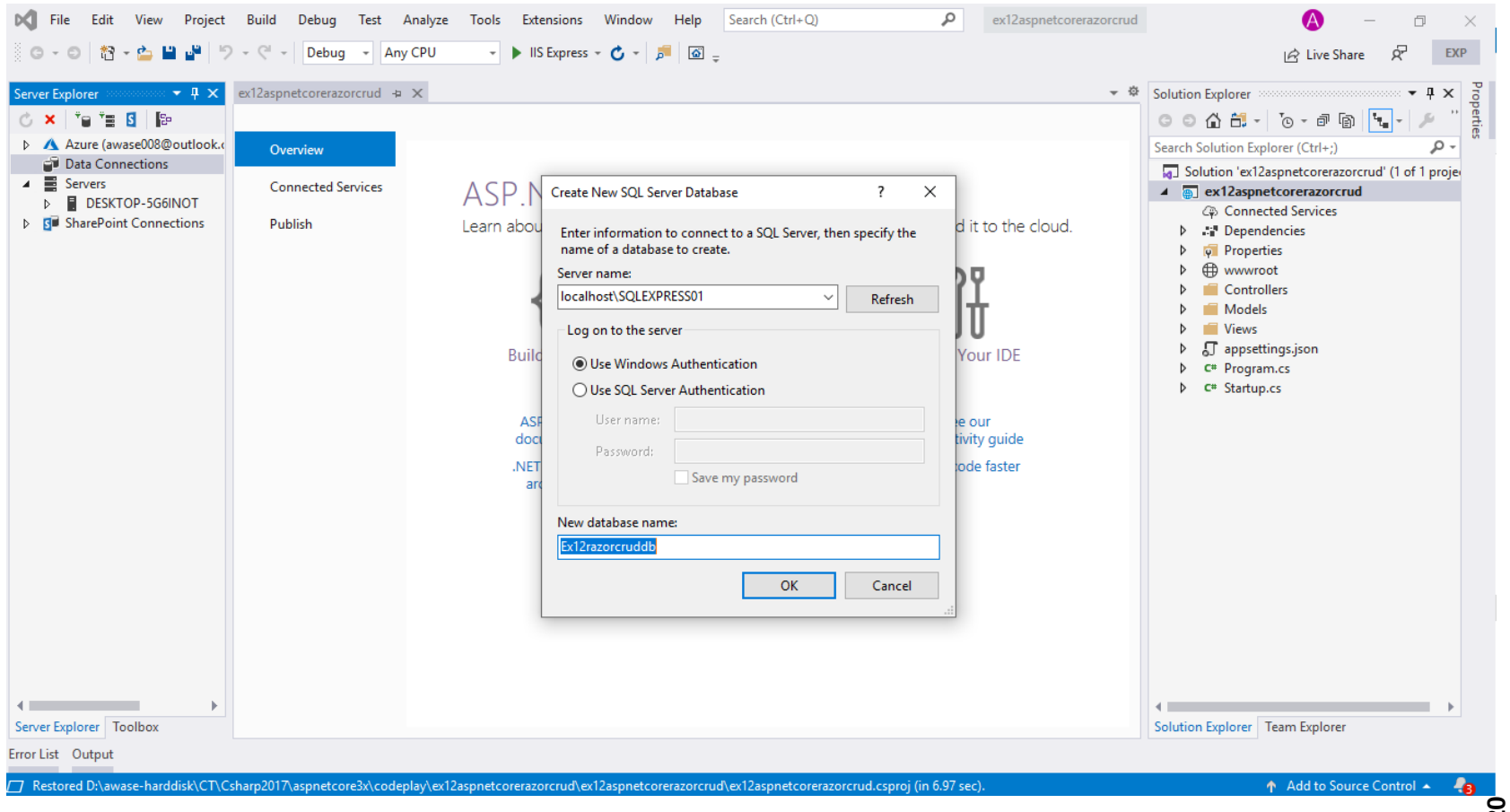
Example:





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Example:

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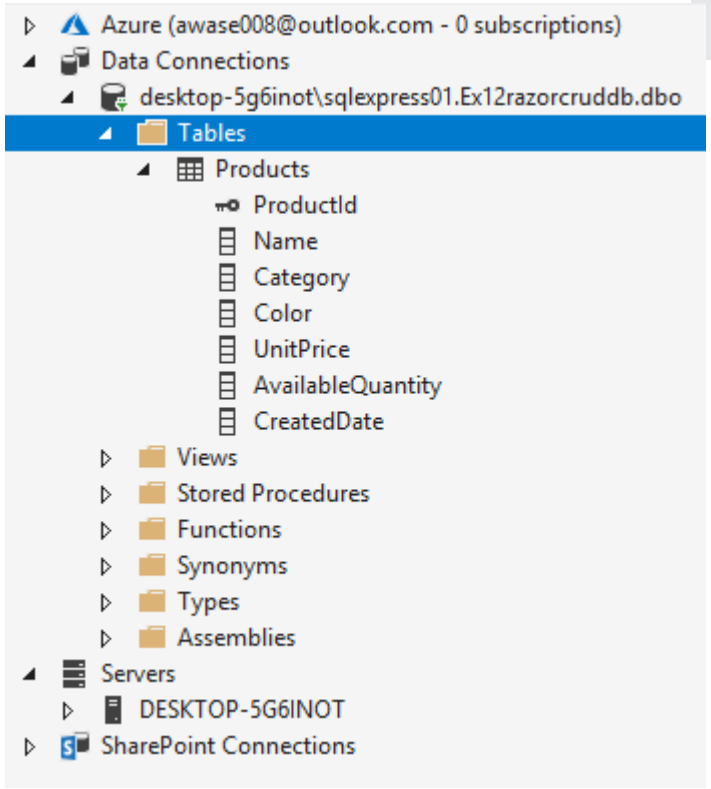
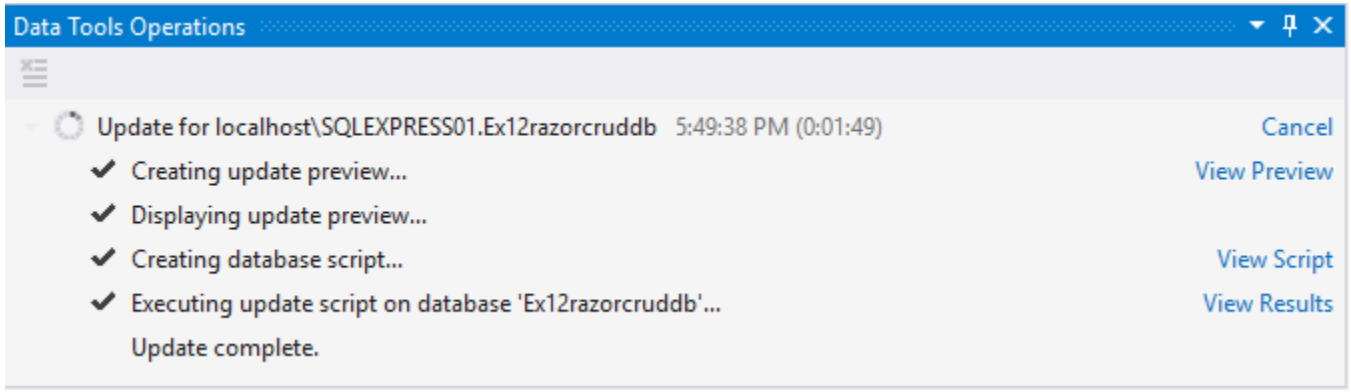
Design | T-SQL

```
CREATE TABLE [dbo].Products
(
    ProductId BigInt Identity(1,1) Primary key,
    Name Varchar(100) Not Null,
    Category Varchar(100),
    Color Varchar(20),
    UnitPrice Decimal Not Null,
    AvailableQuantity BigInt Not Null,
    CreatedDate DateTime Default(GetDate()) Not Null,
);
```





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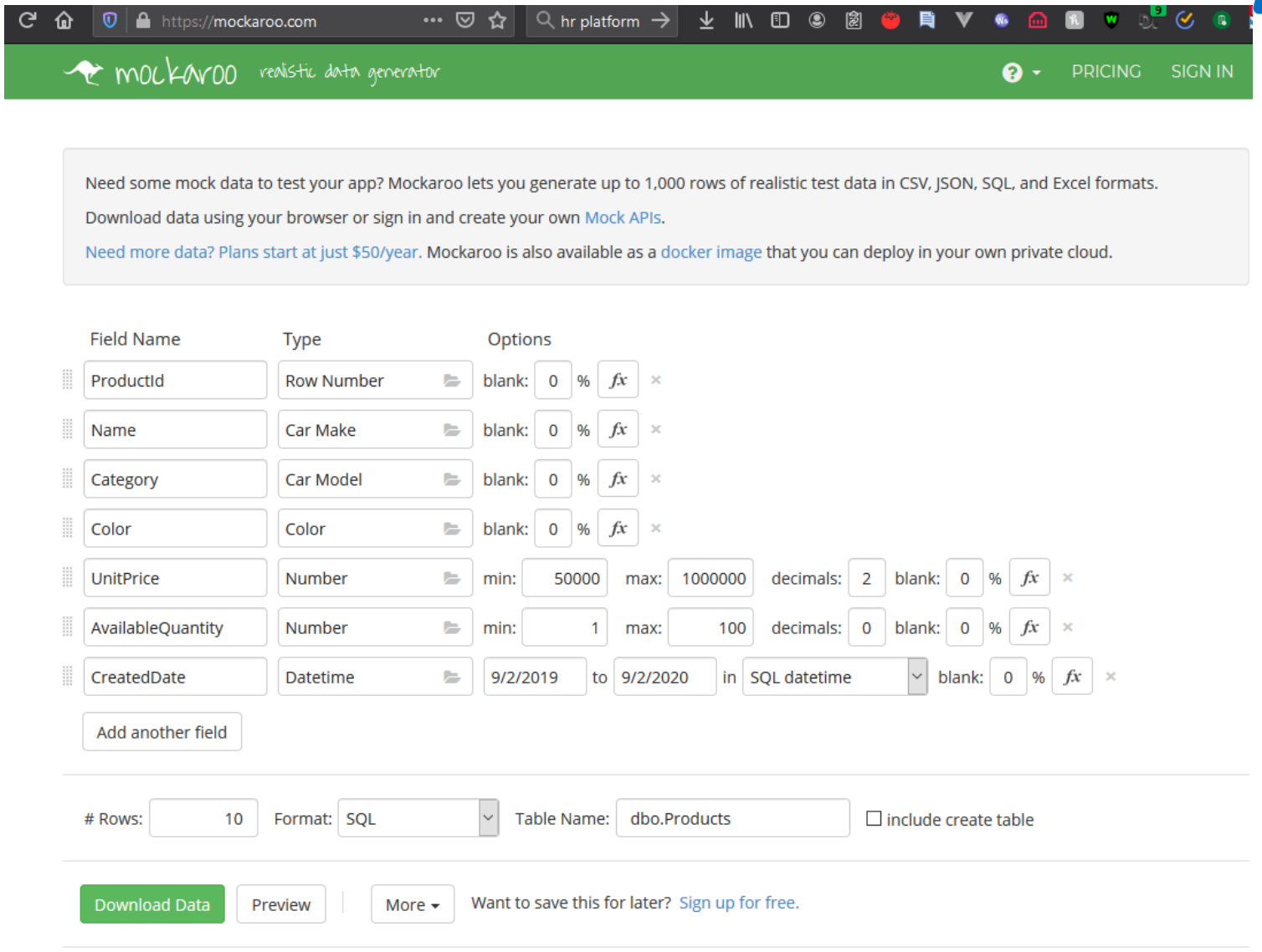

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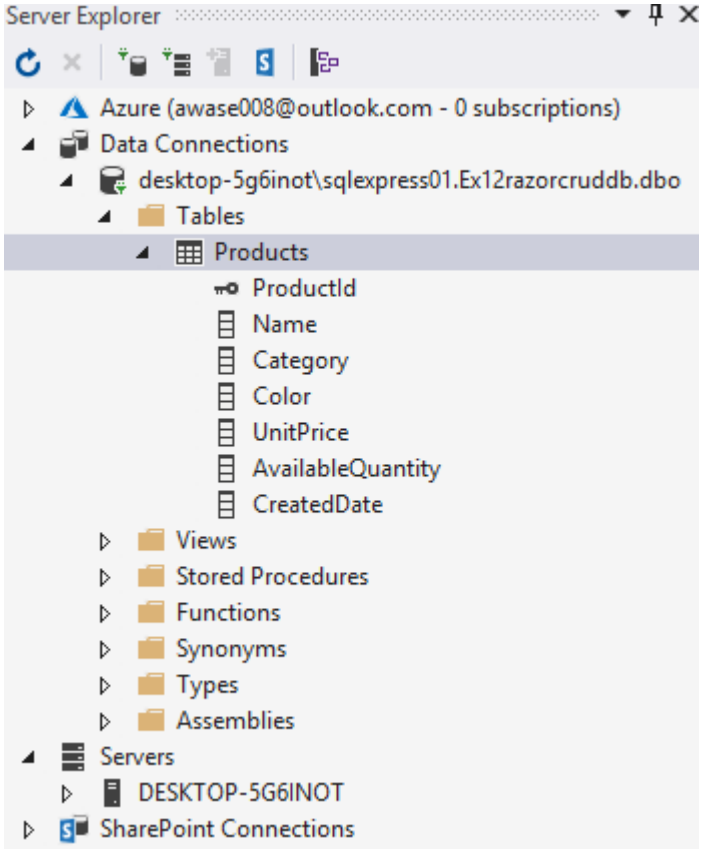

- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Mercedes-Benz', 'G-Class', 'Crimson', 782173.94, 81, '2019-09-15 20:36:48');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Mercedes-Benz', '600SEC', 'Crimson', 470350.08, 72, '2020-08-30 22:23:30');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Lincoln', 'MKZ', 'Fuscia', 219253.08, 30, '2020-05-12 11:37:42');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Lexus', 'LS', 'Yellow', 349169.07, 62, '2020-03-26 08:54:13');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Ford', 'Explorer Sport Trac', 'Fuscia', 550463.57, 28, '2020-05-31 00:45:28');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Mercedes-Benz', '400E', 'Puce', 156313.98, 10, '2020-06-10 06:24:40');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('GMC', 'Suburban 2500', 'Green', 548709.99, 70, '2020-03-16 12:00:26');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Mitsubishi', 'Outlander', 'Green', 901194.99, 92, '2019-12-21 16:43:13');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Toyota', 'Avalon', 'Turquoise', 529810.21, 67, '2019-11-04 21:54:04');
- insert into dbo.Products (Name, Category, Color, UnitPrice, AvailableQuantity, CreatedDate) values ('Chevrolet', 'Suburban 2500', 'Turquoise', 701365.7, 64, '2020-07-05 09:44:49');

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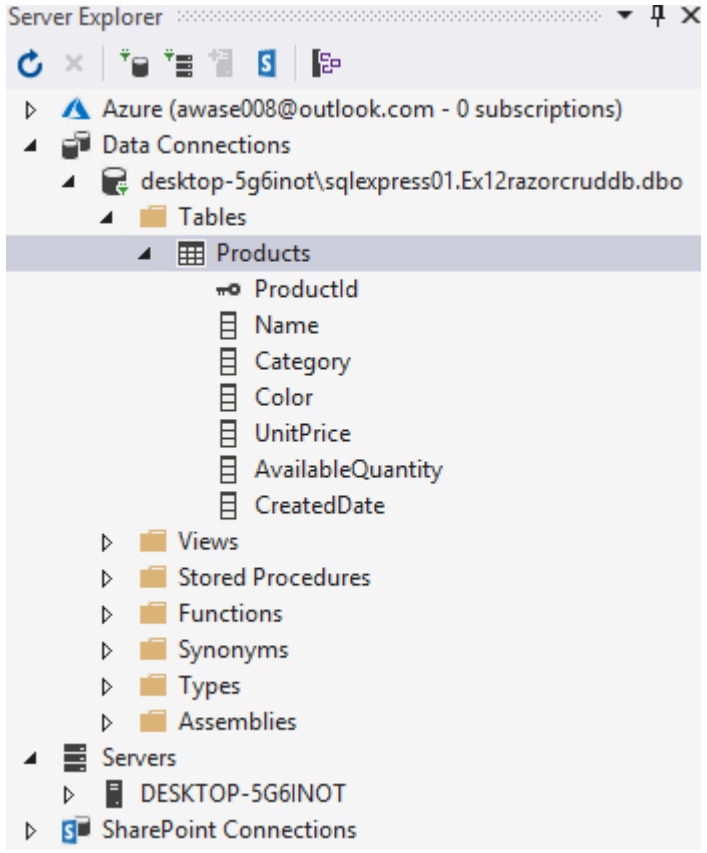

dbo.Products [Data] | ex12aspnetcorerazorcrud

Max Rows: 1000

ProductId	Name	Category	Color	UnitPrice	AvailableQuan...	CreatedDate
1	Mercedes-Benz	G-Class	Crimson	782174	81	9/15/2019 8:36:...
2	Mercedes-Benz	600SEC	Crimson	470350	72	8/30/2020 10:23...
3	Lincoln	MKZ	Fuscia	219253	30	5/12/2020 11:37...
4	Lexus	LS	Yellow	349169	62	3/26/2020 8:54:...
5	Ford	Explorer Sport T...	Fuscia	550464	28	5/31/2020 12:45...
6	Mercedes-Benz	400E	Puce	156314	10	6/10/2020 6:24:...
7	GMC	Suburban 2500	Green	548710	70	3/16/2020 12:00...
8	Mitsubishi	Outlander	Green	901195	92	12/21/2019 4:43...
9	Toyota	Avalon	Turquoise	529810	67	11/4/2019 9:54:...
10	Chevrolet	Suburban 2500	Turquoise	701366	64	7/5/2020 9:44:4...
NULL	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*

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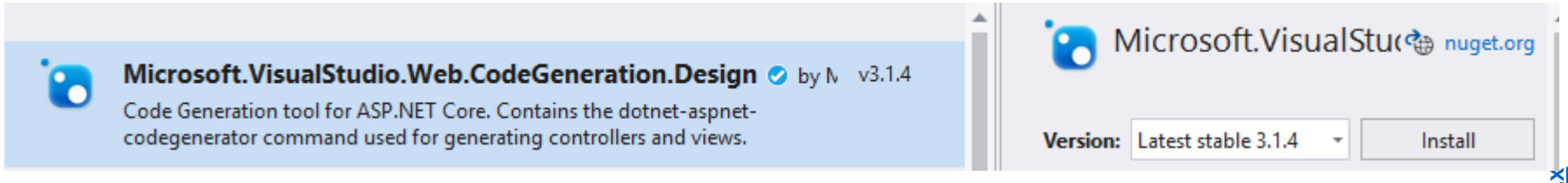
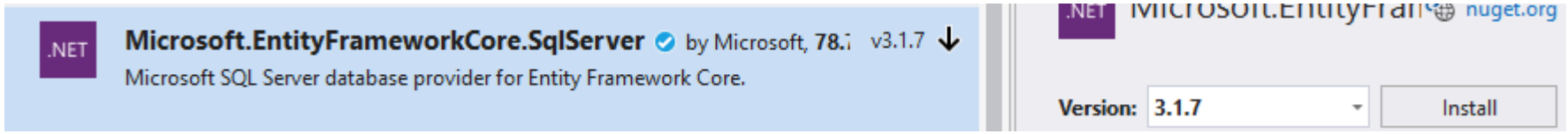
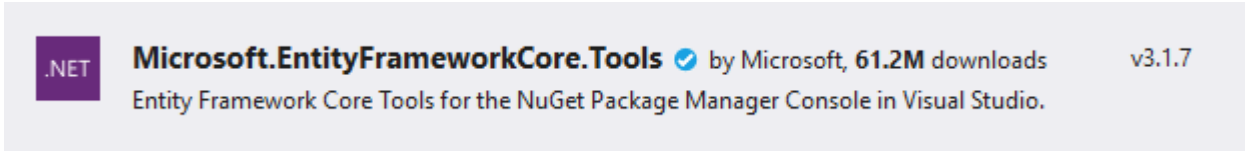



```
Installing NuGet package Microsoft.VisualStudio.Web.CodeGeneration.Design 3.1.4.

Installing NuGet package Microsoft.EntityFrameworkCore 3.1.7.

Installing NuGet package Microsoft.VisualStudio.Web.CodeGeneration.Contracts 3.1.4.
```





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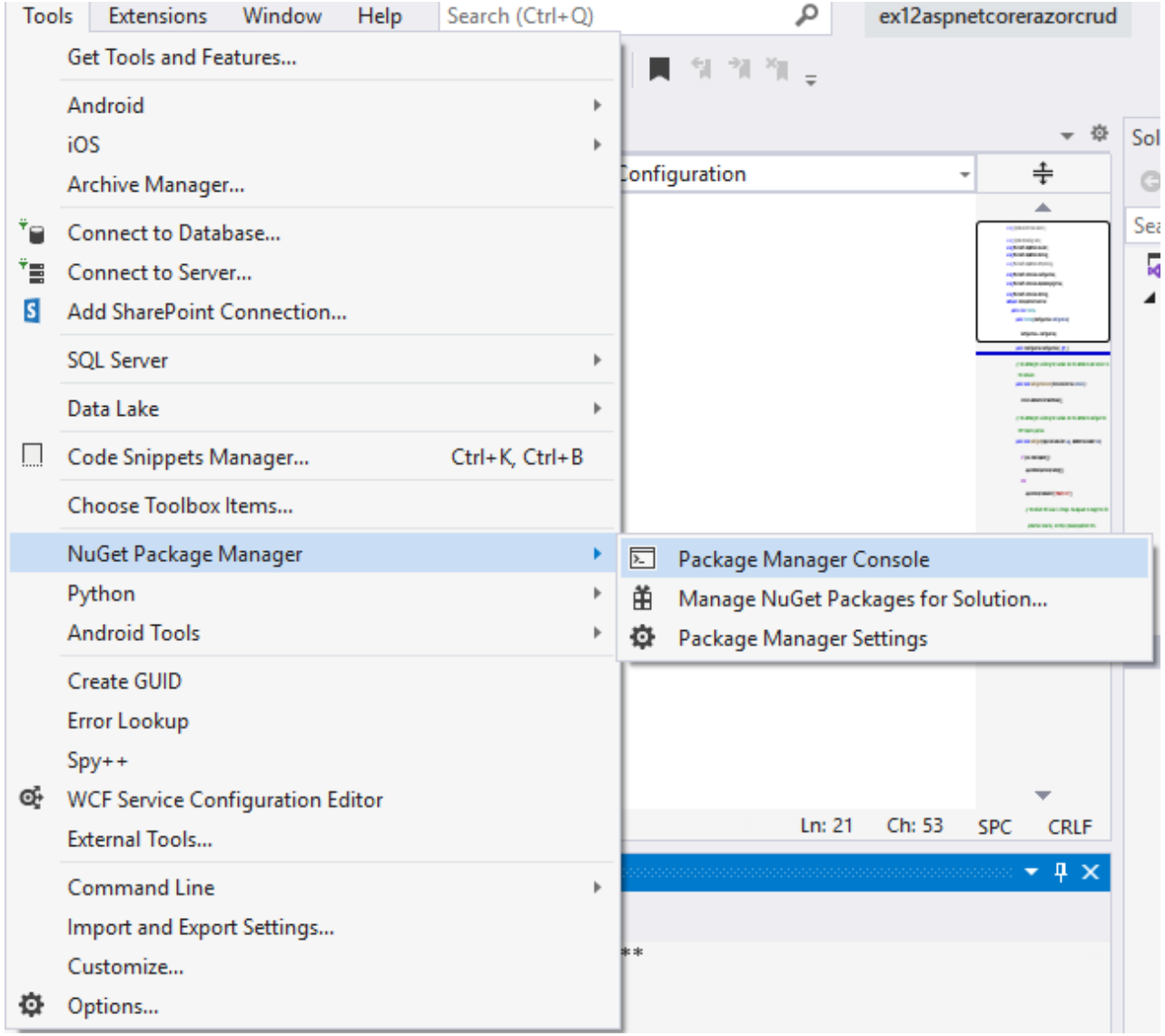

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Example:

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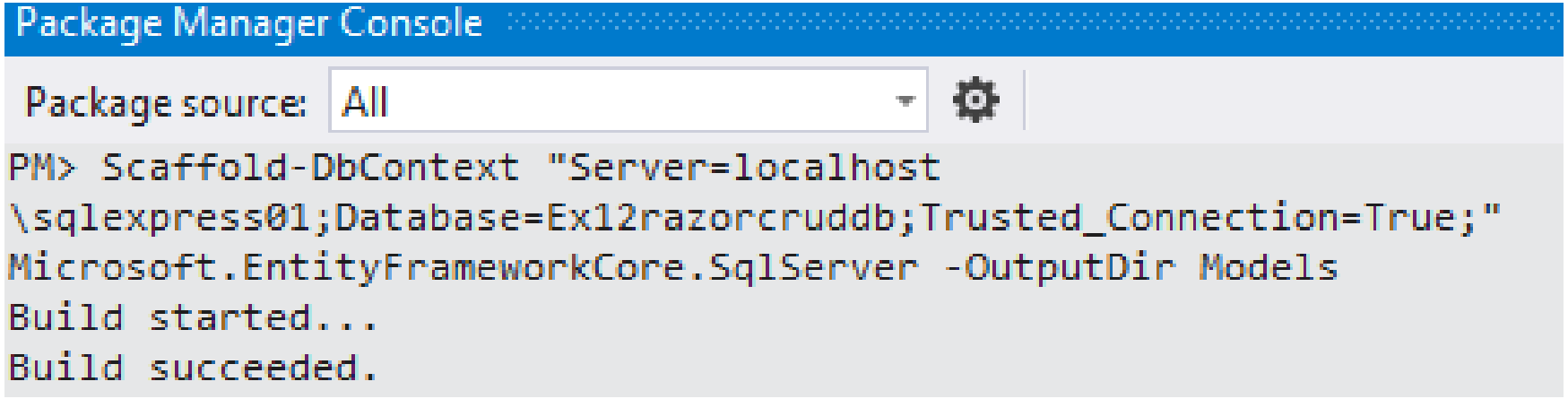
Scaffold-DbContext "Server=localhost\sqlexpress01;Database=Ex12razorcruddb;Trusted_Connection=True;" Microsoft.EntityFrameworkCore.SqlServer -OutputDir Models



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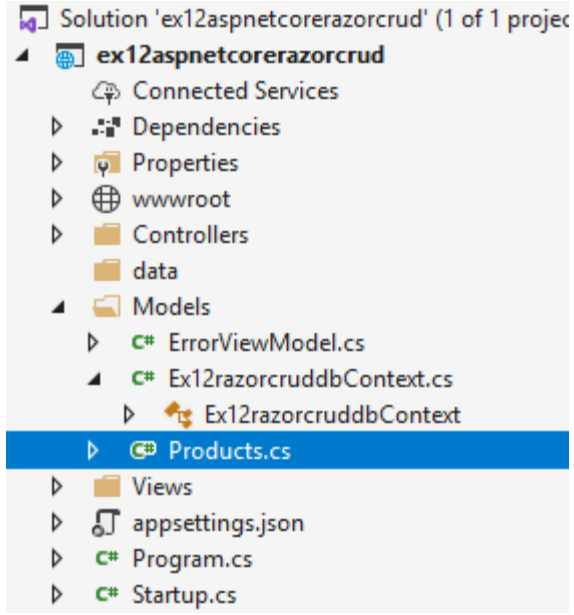
Example:

1

- Remove **OnConfiguring** method from DbContext file

2

- Add connection string parameters to **appsettings.json**



appsettings.json | Ex12razorcruddbContext.cs | ex12aspnetcorerazorcrud.csproj | NuGet - Solution | Startup.cs*

Schema: https://json.schemastore.org/appsettings

```
{
  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft": "Warning",
      "Microsoft.Hosting.Lifetime": "Information"
    }
  },
  "AllowedHosts": "*",
  "ConnectionStrings": {
      "DbConnection": "Server=localhost\\sqlexpress01;Database=Ex12razorcruddb;Trusted_Connection=True;"
  }
}
```

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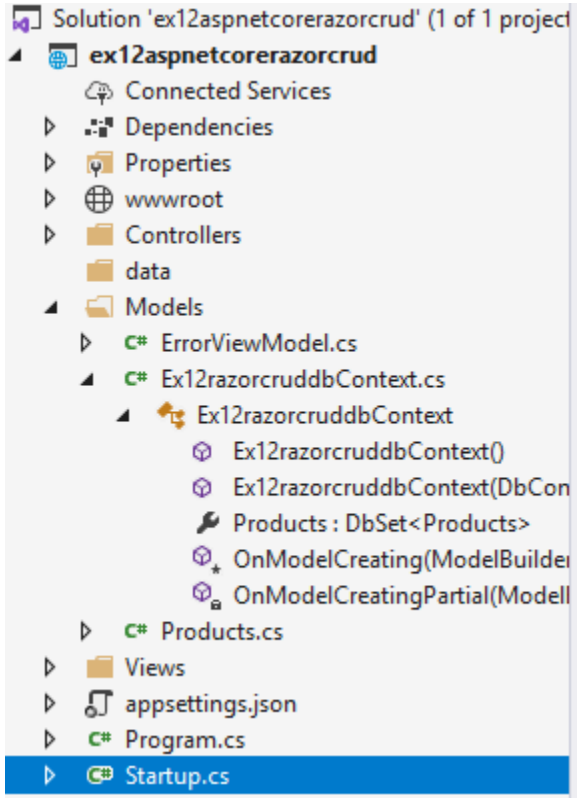

ex12aspnetcorerazorcrud | ex12aspnetcorerazorcrud.Startup | ConfigureServices(IServiceCollection services)

```
// This method gets called by the runtime. Use this method to add services to the container.
0 references
public void ConfigureServices(IServiceCollection services)
{
    //step3: Register the database context service during application startup
    var dbconnection = Configuration.GetConnectionString("DbConnection");
    services.AddDbContext<Ex12razorcruddbContext>(optionsBuilder => optionsBuilder.UseSqlServer
      (dbconnection));

    services.AddControllersWithViews();
}
```

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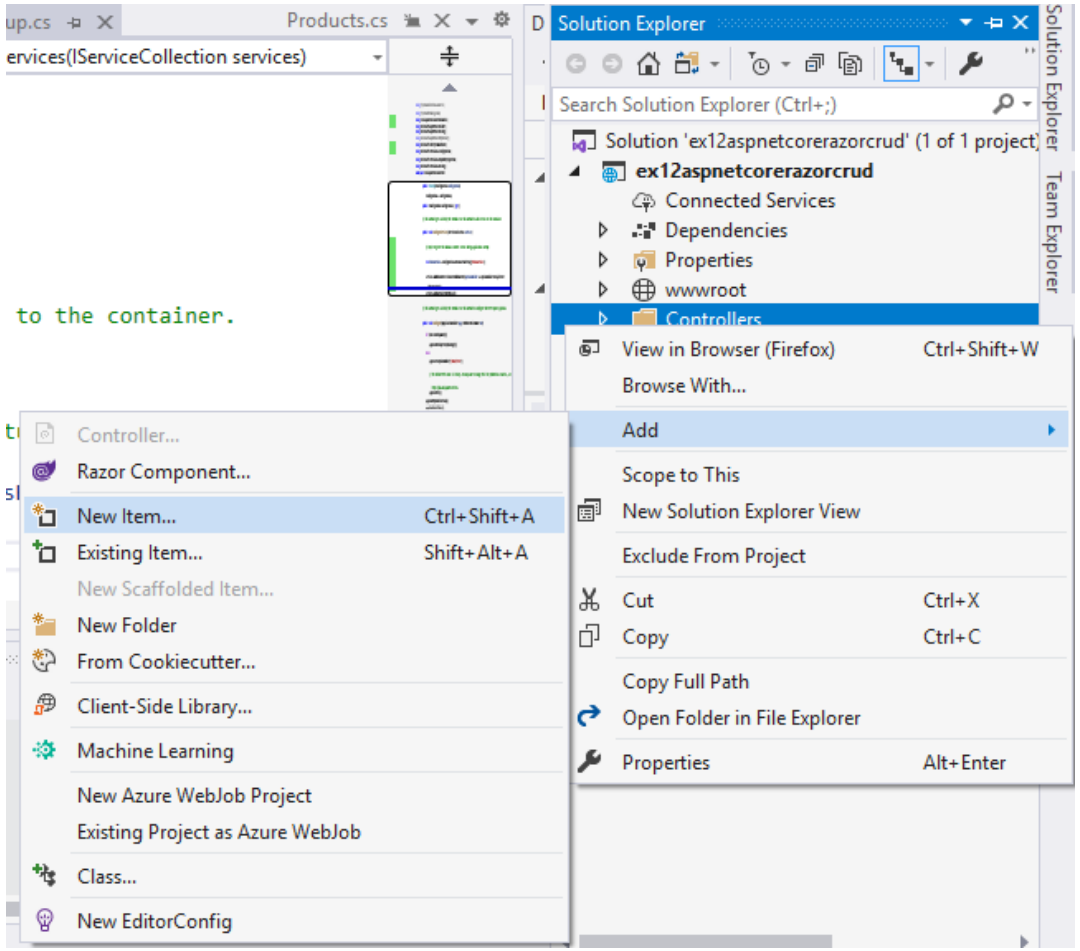

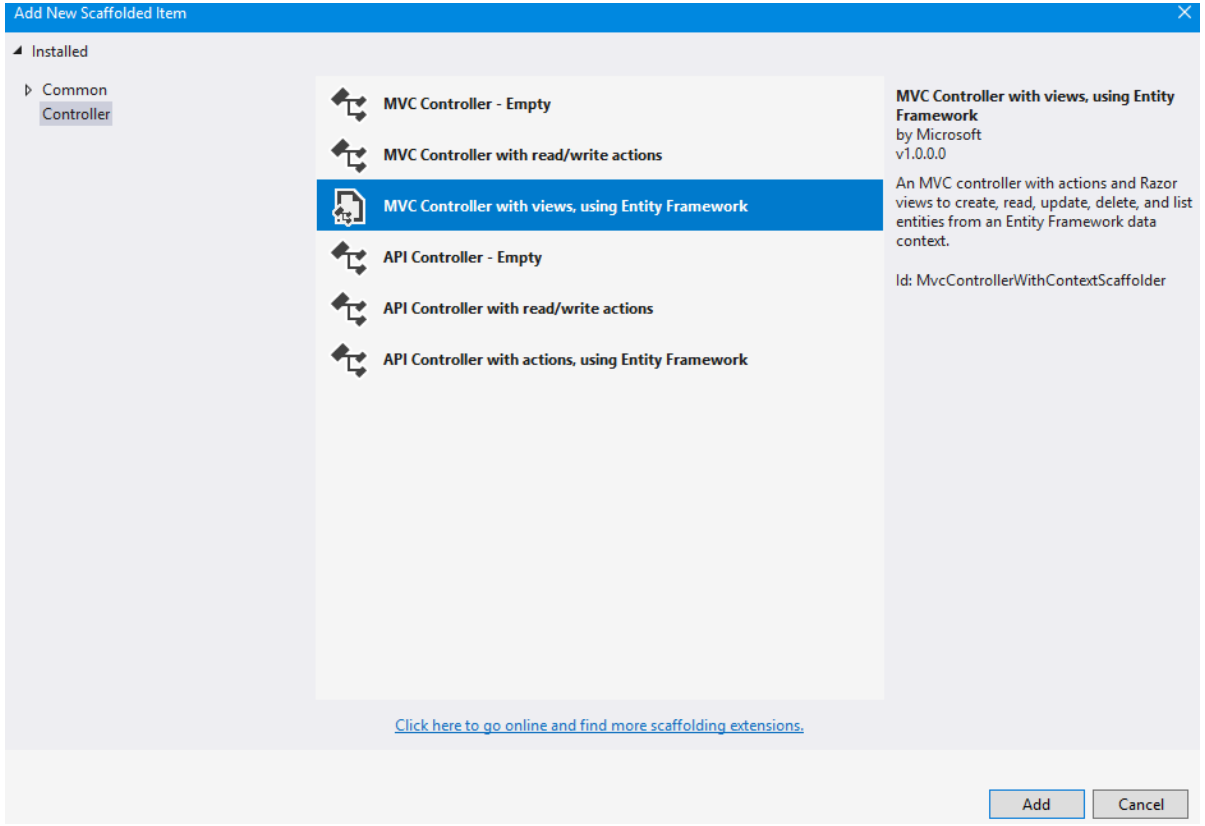

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Example:

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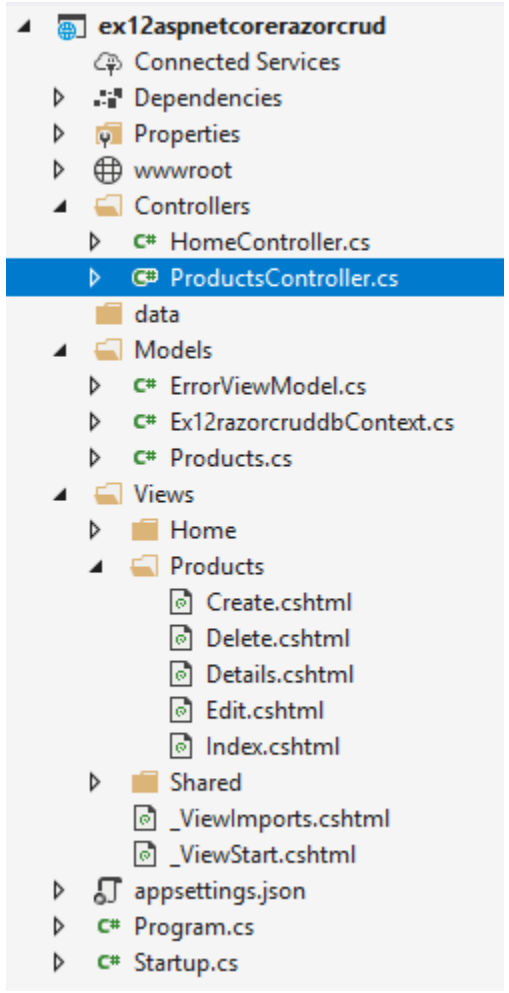

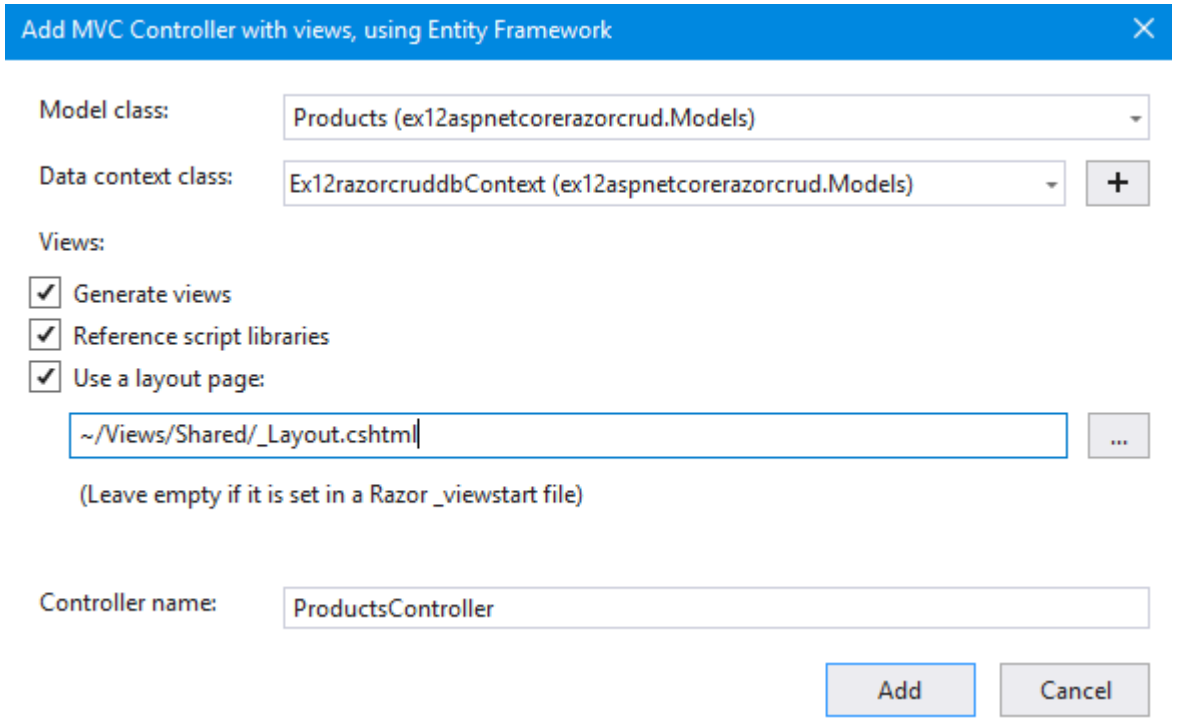

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Example:

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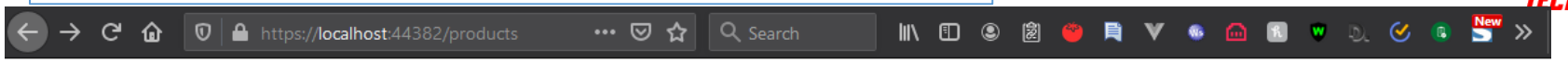

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Index

Create New

Name	Category	Color	UnitPrice	AvailableQuantity	CreatedDate	
Mercedes-Benz	G-Class	Crimson	782174.00	81	9/15/2019 8:36:48 PM	Edit | Details | Delete
Mercedes-Benz	600SEC	Crimson	470350.00	72	8/30/2020 10:23:30 PM	Edit | Details | Delete
Lincoln	MKZ	Fuscia	219253.00	30	5/12/2020 11:37:42 AM	Edit | Details | Delete
Lexus	LS	Yellow	349169.00	62	3/26/2020 8:54:13 AM	Edit | Details | Delete
Ford	Explorer Sport Trac	Fuscia	550464.00	28	5/31/2020 12:45:28 AM	Edit | Details | Delete
Mercedes-Benz	400E	Puce	156314.00	10	6/10/2020 6:24:40 AM	Edit | Details | Delete
GMC	Suburban 2500	Green	548710.00	70	3/16/2020 12:00:26 PM	Edit | Details | Delete
Mitsubishi	Outlander	Green	901195.00	92	12/21/2019 4:43:13 PM	Edit | Details | Delete
Toyota	Avalon	Turquoise	529810.00	67	11/4/2019 9:54:04 PM	Edit | Details | Delete
Chevrolet	Suburban 2500	Turquoise	701366.00	64	7/5/2020 9:44:49 AM	Edit | Details | Delete

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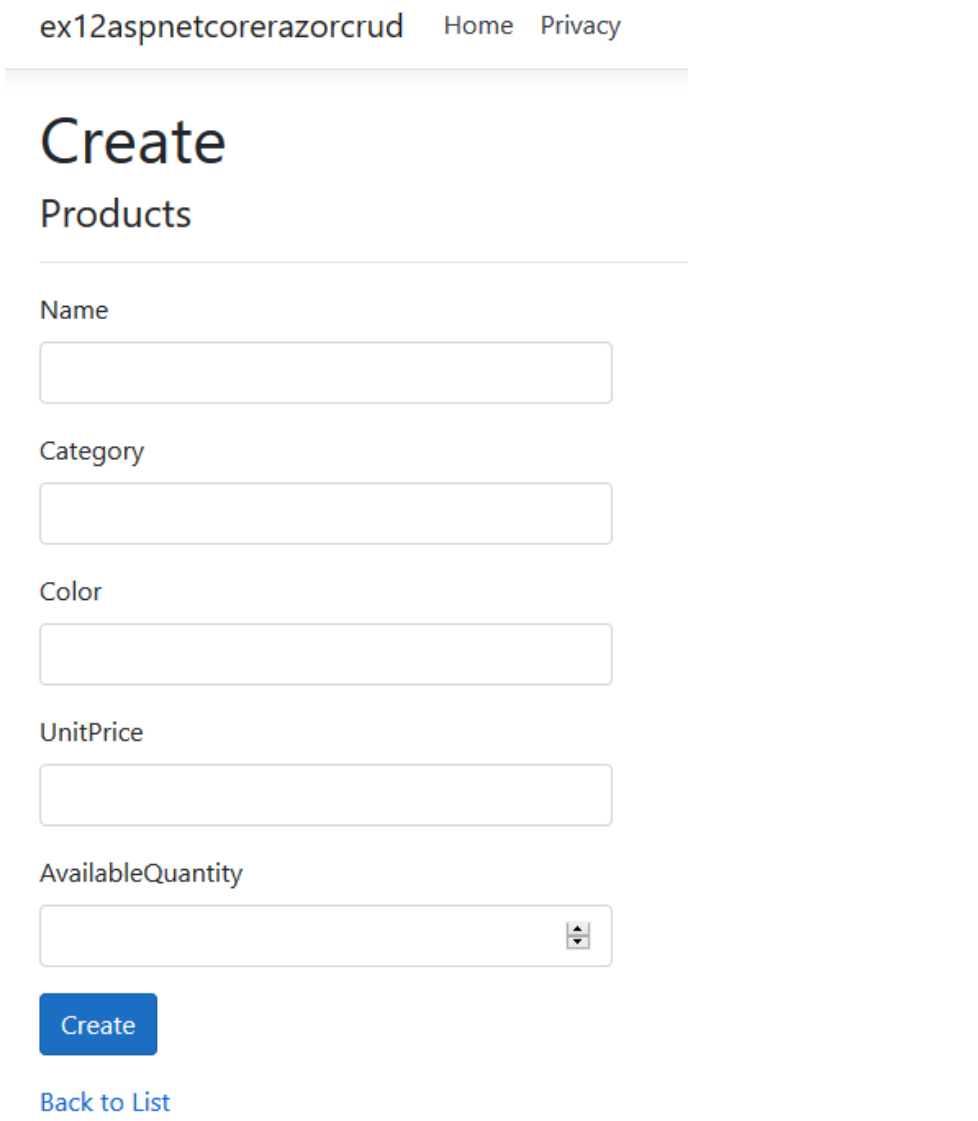

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Example:

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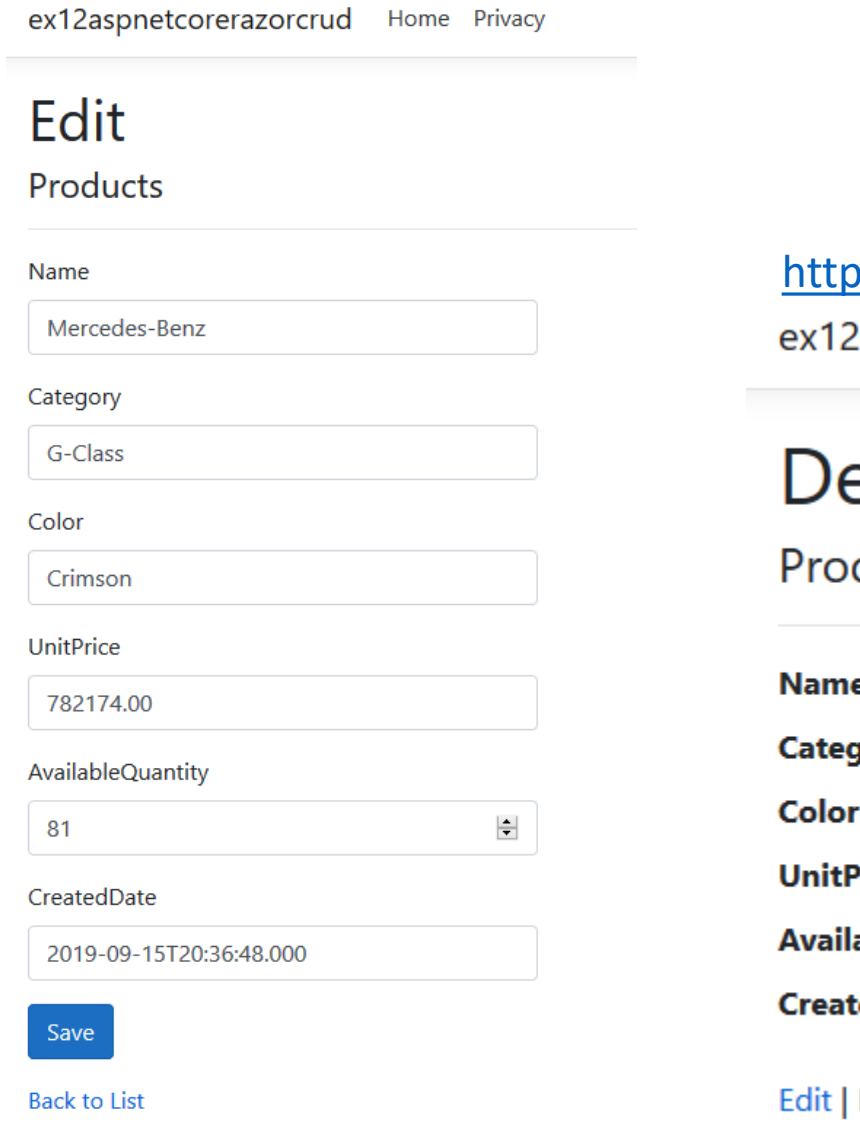

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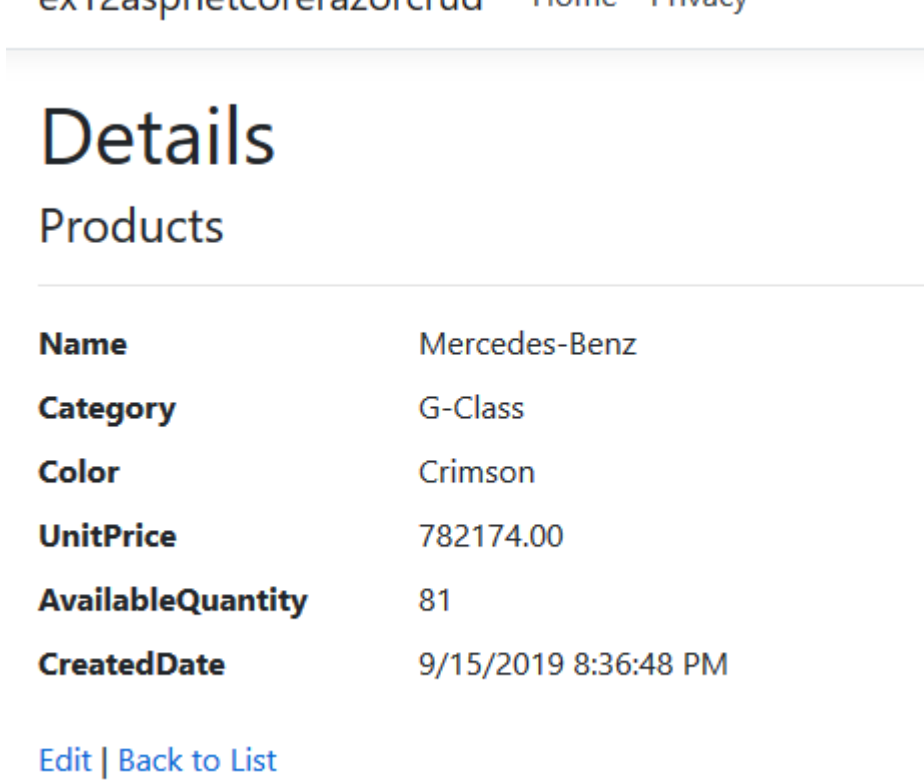

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