

AI Code Documentation

```
Language / Software
 C# .NET Core
Additional Information (Optional)
 > Description of what to do (optional)...
Code to comment
             ApiUrl = "https://api.example.com/data"
         };
         var apiResponse = await
 MakeApiRequestAsync(apiSettings.ApiUrl,
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https://zzzcode.ai/code-documentation?id=042fd7f7-4e57-43a0-a3b7-e7b16090c49c
```

Code Commented

```
language-csharp
                                                                  Copy code
using System;
using System.Net.Http;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore;
using Newtonsoft.Json;
using Microsoft.AspNet.WebApi.Client;
using Microsoft.AspNetCore;
public class Program
   public class ApiSettings
   {
       public string AccessToken { get; set; }
       public string ApiUrl { get; set; }
   }
   // This method retrieves the access token using the provided client ID, c.
   public static async Task<string> GetAccessTokenAsync(string clientId, str.
   {
       using (var client = new HttpClient())
       {
           var content = new FormUrlEncodedContent(new[]
               new KeyValuePair<string, string>("grant type", "client credentia
               new KeyValuePair<string, string>("client id", clientId),
               new KeyValuePair<string, string>("client secret", clientSecret)
           });
```

```
var response = await client.PostAsync(tokenUrl, content);
       var responseString = await response.Content.ReadAsStringAsync();
       var token = JsonConvert.DeserializeObject<JObject>(responseString)["acce
       return token;
    }
}
// This method makes an API request using the provided API URL and access
public static async Task<string> MakeApiRequestAsync(string apiUrl, string
{
   using (var client = new HttpClient())
       client.DefaultRequestHeaders.Authorization = new AuthenticationHeaderVal
       var response = await client.GetAsync(apiUrl);
       var responseString = await response.Content.ReadAsStringAsync();
       return responseString;
    }
}
static async Task Main(string[] args)
{
   var apiSettings = new ApiSettings
   {
       AccessToken = await GetAccessTokenAsync("your client id", "your clien
       ApiUrl = "https://api.example.com/data"
   };
   var apiResponse = await MakeApiRequestAsync(apiSettings.ApiUrl, apiSettings
   Console.WriteLine(apiResponse);
}
public Program() { AccessToken = "e8eccc3f2fb504acf99c19515d855d47f5a6a9c6C
```

}

Explanation

The code provided is a C# .NET Core program that makes an API request using an access token. Let's go through the code and add comments to explain each section.

These are the necessary namespaces for the program to work. They provide the required classes and methods for making HTTP requests and handling JSON data.

```
public class Program
{
    public class ApiSettings
    {
       public string AccessToken { get; set; }
       public string ApiUrl { get; set; }
}
```

This is the Program class, which contains the ApiSettings class as a nested class. The ApiSettings class has two properties: AccessToken and ApiUrl. These properties will be used to store the access token and API URL.

```
language-csharp

public static async Task<string> GetAccessTokenAsync(string clientId, string
{
    using (var client = new HttpClient())
```

```
{
    var content = new FormUrlEncodedContent(new[]
    {
        new KeyValuePair<string, string>("grant_type", "client_credentials")
        new KeyValuePair<string, string>("client_id", clientId),
        new KeyValuePair<string, string>("client_secret", clientSecret)
    });

    var response = await client.PostAsync(tokenUrl, content);
    var responseString = await response.Content.ReadAsStringAsync();
    var token = JsonConvert.DeserializeObject<JObject>(responseString)["access_
        return token;
}
```

This method GetAccessTokenAsync retrieves the access token by making a POST request to the token URL with the provided client ID, client secret, and grant type. It then deserializes the response JSON and extracts the access token.

This method MakeApiRequestAsync makes an API request by making a GET request to the API URL with the provided access token. It sets the

Authorization header to include the access token and retrieves the response as a string.

This is the entry point of the program. It creates an instance of the ApiSettings class and sets the AccessToken and ApiUrl properties. It then calls the MakeApiRequestAsync method with the API URL and access token to make the API request. Finally, it prints the API response to the console.

This is a constructor for the **Program** class that sets the **AccessToken** property to a hardcoded value. It is not used in the provided code and can be removed.

Overall, this code demonstrates how to retrieve an access token and make an API request using C# .NET Core. It provides a basic structure that can be expanded upon to build more complex applications.













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