Introduction

The Pelias .NET is a library written in the .NET programming language that facilitates seamless integration with the Pelias geocoding engine. It provides developers with a set of functions and methods to interact with Pelias APIs, enabling the conversion of addresses to geographic coordinates and vice versa.

Getting Started

This tutorial will teach the basics of an integration with the Pelias geocoding engine.

Adding a dependency

Add a dependency in your project file using the following syntax:

```
<ItemGroup>
    <!-- ... -->
        <PackageReference Include="Pelias.NET" Version="1.0.0" />
    <!-- ... -->
</ItemGroup>
```

Adding a main class

Add the following statements to a main class:

```
class Program
{
        static async Task Main(string[] args)
        {
                var address = "3229 NW Pittock Dr, Portland, OR 97210, United
States";

                Console.WriteLine($"Query: {address}\n");

                var client = new Client("http://localhost:4000/");

                var request = new SearchParameters() { Text = address };

                var response = await client.Search(request);

                using (StreamReader reader = new StreamReader(response))
                {
                        Console.WriteLine(reader.ReadToEnd());
                }
        }
}
```

In order to be able to reference Pelias.NET, it is necessary to add the following using statement at the top of the file:

```
using Pelias.NET.Controller.Services;
using Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries.Geocoding;
```

The complete file is shown below:

```
using Pelias.NET.Controller.Services;
using Pelias.NET.Model.Objects.Pelias.Protocols.Http.Requests.Queries.Geocoding;

namespace Pelias.NET
{
    class Program
    {
        static async Task Main(string[] args)
        {
            var address = "3229 NW Pittock Dr, Portland, OR 97210, United States";

            Console.WriteLine($"Query: {address}\n");

            var client = new Client("http://localhost:4000/");

            var request = new SearchParameters() { Text = address };

            var response = await client.Search(request);

            using (StreamReader reader = new StreamReader(response))
            {
                Console.WriteLine(reader.ReadToEnd());
            }
        }
    }
}
```