

IP Address Parser Application - ASP.NET Core

User guide

1. Application installation

1.1 Setting up the development environment

If you're using MacOS, please follow this page to set up your development environment:
<https://docs.microsoft.com/en-us/aspnet/core/tutorials/your-first-mac-aspnet>

If you're using Windows, please follow this page:
<https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-mvc-app/index>

1.2 Build and run the application

Once ASP.NET core environment is installed on you computer, restore the dependencies and build the project like following:

- MacOS / Linux users:

```
cd "IPParser"
dotnet restore
dotnet build (optional, build will also happen with it's run)
dotnet run
```

- Windows users:

Tap F5 to run the app in debug mode or Ctrl-F5 in non-debug mode.

2. Using and modifying the Application

2.1 Using the application

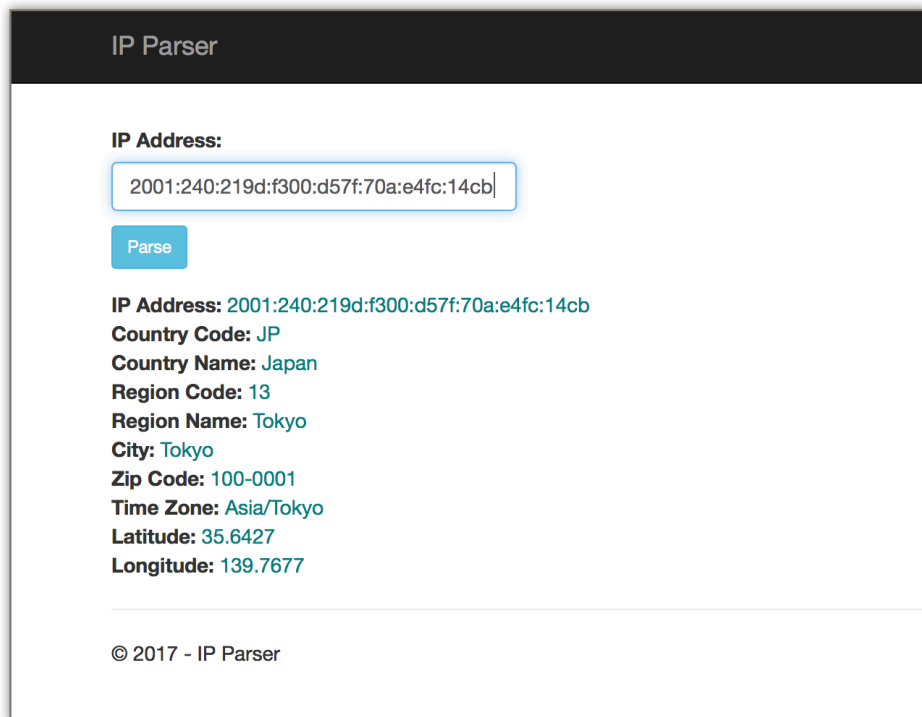
Just paste an Ip Address (IPV4 or IPV6) in the empty filed and click parse. The extracted informations will be displayed below.

2.2 Architecture explanation for code modification / re-use

The application uses “freegeoip.net”, a free web service to help with the Ip address analysing. We first create an HttpClient object that we will use to sent an Http Get request to the following url: “<https://freegeoip.net/json/{pAddress}>”.

Then we deserialise the return string into a GeoIPRespContent object defined in the same file, using Json, and display the available information in the “Index.cshtml” view.

Screen shot:



The screenshot shows a web application titled "IP Parser". It features a text input field for an IP address, which contains the value "2001:240:219d:f300:d57f:70a:e4fc:14cb". Below the input field is a blue "Parse" button. After clicking the button, the application displays the following information in a list:

- IP Address:** 2001:240:219d:f300:d57f:70a:e4fc:14cb
- Country Code:** JP
- Country Name:** Japan
- Region Code:** 13
- Region Name:** Tokyo
- City:** Tokyo
- Zip Code:** 100-0001
- Time Zone:** Asia/Tokyo
- Latitude:** 35.6427
- Longitude:** 139.7677

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