In [1]:

```
import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
```

In [3]:

```
!pip install folium
```

```
Collecting folium
  Downloading folium-0.14.0-py2.py3-none-any.whl (102 kB)
     ------------------------------------- 102.3/102.3 kB 28.7 kB/s eta 0:00:00
Collecting branca>=0.6.0
  Downloading branca-0.6.0-py3-none-any.whl (24 kB)
Requirement already satisfied: jinja2>=2.9 in c:\users\user\appdata\local\programs\python\python311\lib\site-packages (from fol
ium) (3.1.2)
Requirement already satisfied: numpy in c:\users\user\appdata\local\programs\python\python311\lib\site-packages (from folium)
(1.23.4)
Collecting requests
  Downloading requests-2.28.2-py3-none-any.whl (62 kB)
     --------------------------------------- 62.8/62.8 kB 55.2 kB/s eta 0:00:00
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\user\appdata\local\programs\python\python311\lib\site-packages (from
jinja2>=2.9->folium) (2.1.1)
Collecting charset-normalizer<4,>=2
  Downloading charset_normalizer-3.0.1-cp311-cp311-win_amd64.whl (96 kB)
     --------------------------------------- 96.0/96.0 kB 18.2 kB/s eta 0:00:00
Requirement already satisfied: idna<4,>=2.5 in c:\users\user\appdata\local\programs\python\python311\lib\site-packages (from re
quests->folium) (3.4)
Collecting urllib3<1.27,>=1.21.1
  Downloading urllib3-1.26.14-py2.py3-none-any.whl (140 kB)
     ------------------------------------- 140.6/140.6 kB 13.5 kB/s eta 0:00:00
Collecting certifi>=2017.4.17
  Downloading certifi-2022.12.7-py3-none-any.whl (155 kB)
     ------------------------------------- 155.3/155.3 kB 15.9 kB/s eta 0:00:00
Installing collected packages: charset-normalizer, urllib3, certifi, requests, branca, folium
Successfully installed branca-0.6.0 certifi-2022.12.7 charset-normalizer-3.0.1 folium-0.14.0 requests-2.28.2 urllib3-1.26.14
```

In [4]:

```
import folium
```

In [5]:

```
divisions = pd.read_csv('divisions.csv')
districts = pd.read_csv('districts.csv')
upazilas = pd.read_csv('upazilas.csv')
```

In [7]:

```
divisions.head(1)
```

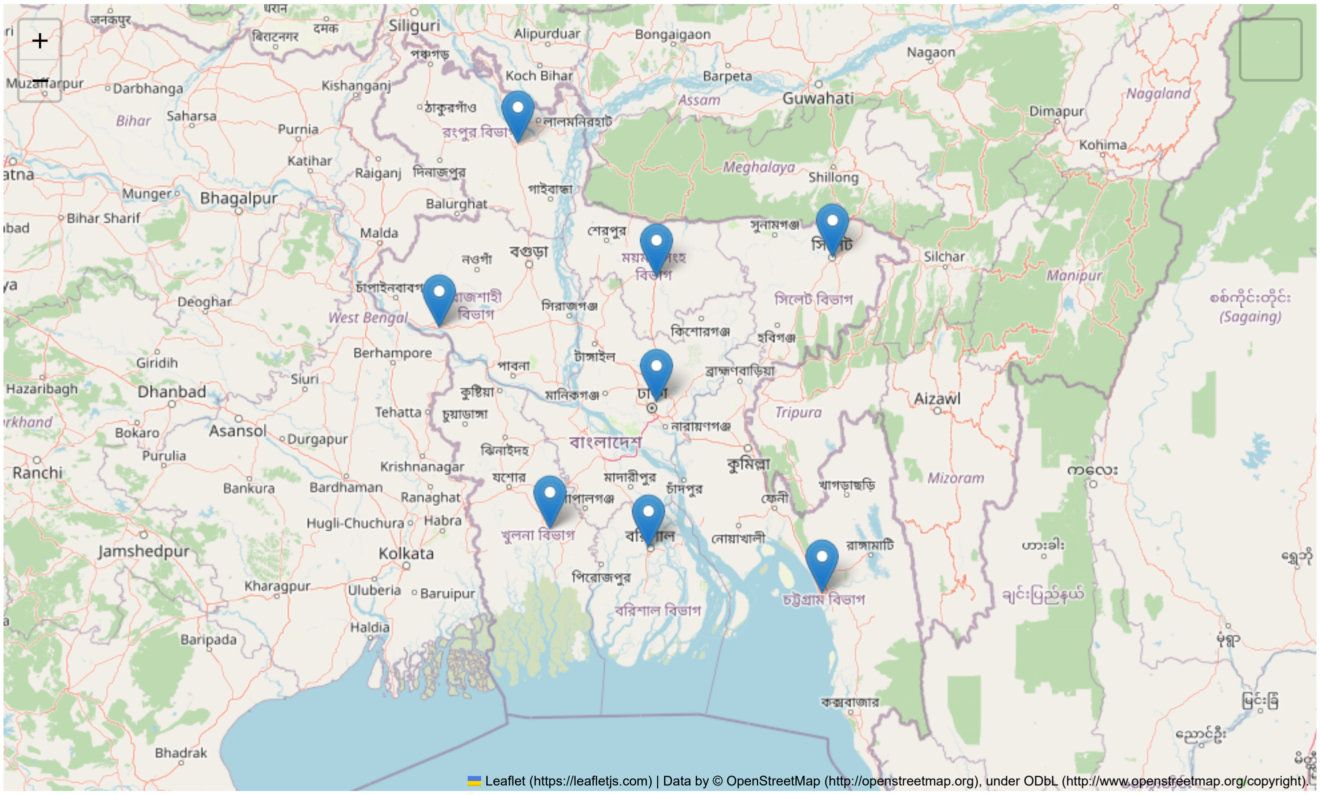
Out[7]:

	id	name	bn_name	lat	long	url
0	1	Chattagram	চট্টগ্রাম	22.356851	91.783182	www.chittagongdiv.gov.bd

In [8]:

```
m = folium.Map(
    location=[np.mean(divisions['lat']),np.mean(divisions['long'])],
    zoom_start=7
)
for index,rows in divisions.iterrows():
    if rows['lat'] and rows['long']:
        folium.Marker([rows['lat'], rows['long']], popup=rows['url']).add_to(m)
folium.LayerControl().add_to(m)
m.save('divisions.html')
m
```

Out[8]:

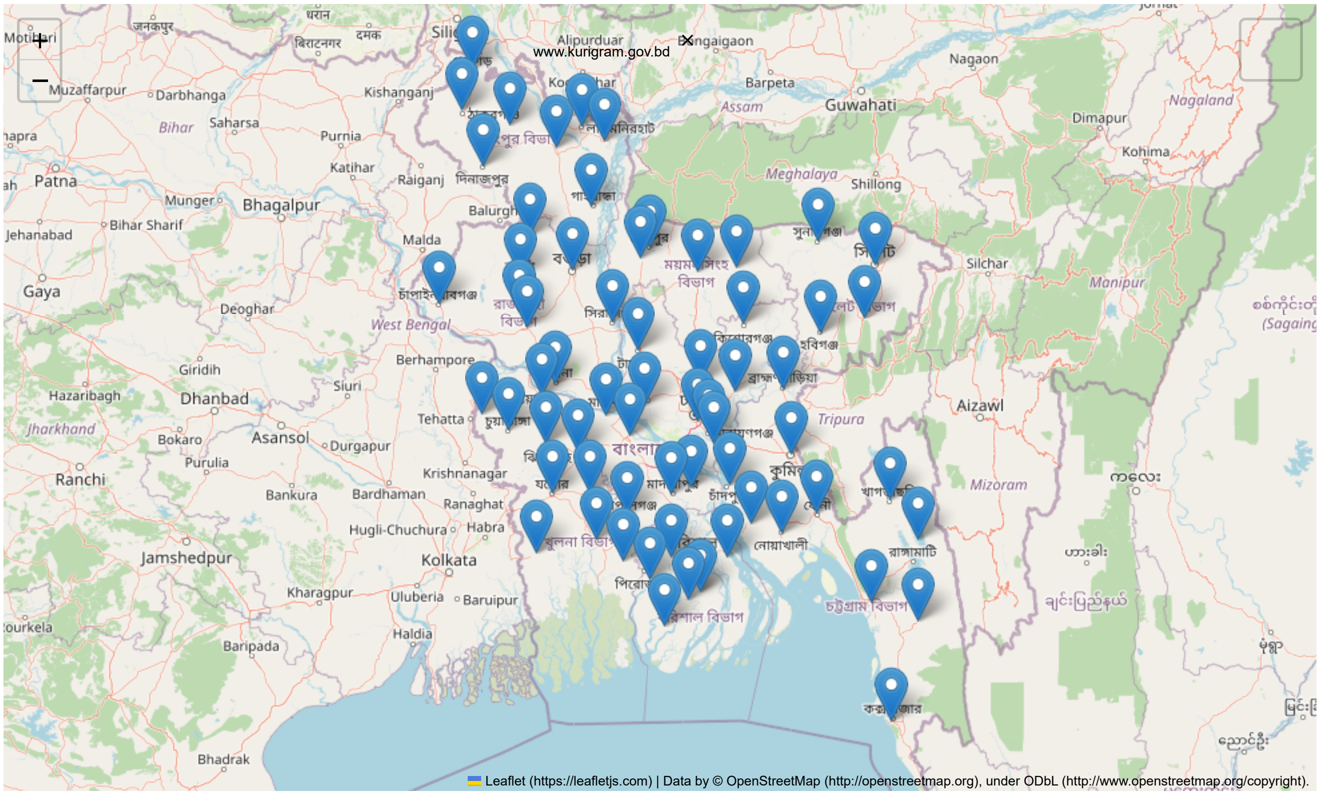


Leaflet (https://leafletjs.com) | Data by © OpenStreetMap (http://openstreetmap.org), under ODbL (http://www.openstreetmap.org/copyright).

In [9]:

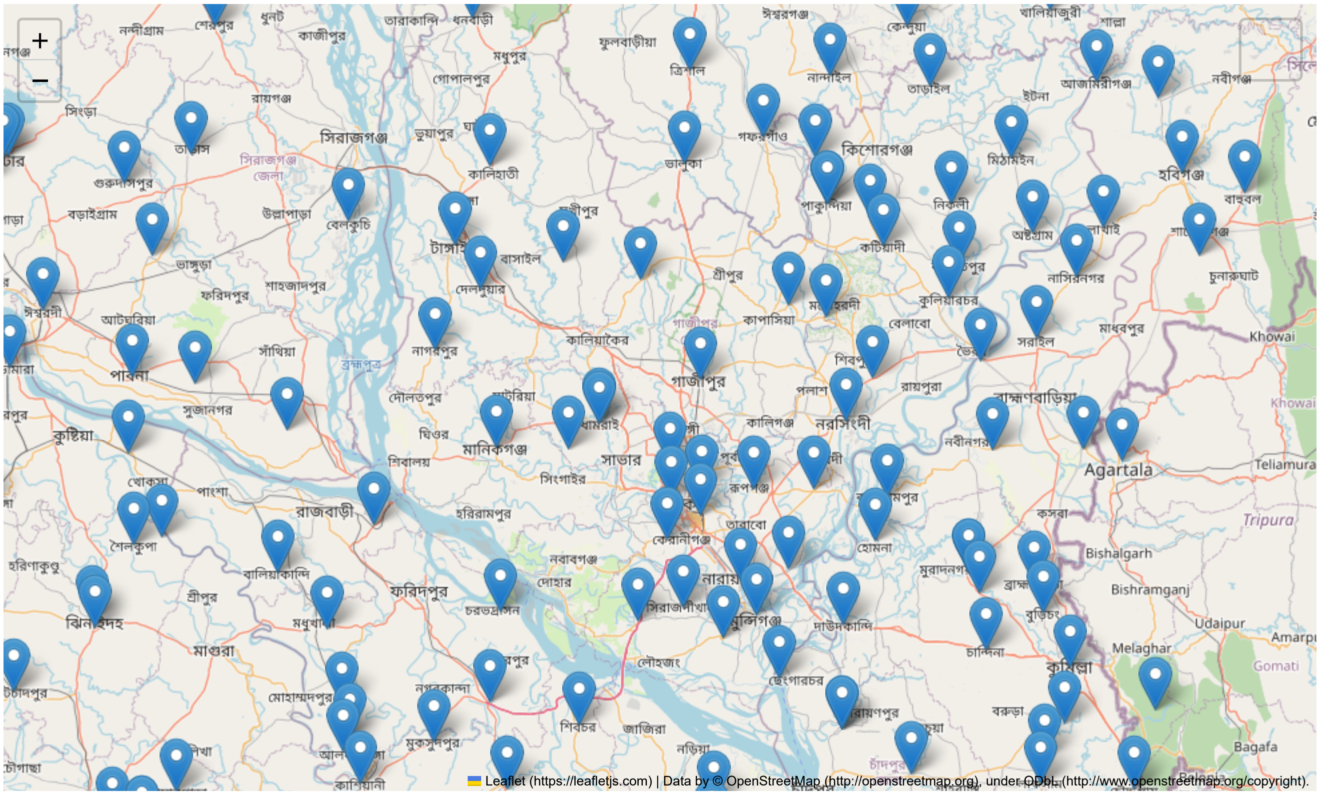
```python
m = folium.Map(
    location=[np.mean(districts['lat']),np.mean(districts['lon'])],
    zoom_start=7
)
for index,rows in districts.iterrows():
    if rows['lat'] and rows['lon']:
        folium.Marker([rows['lat'], rows['lon']], popup=rows['url']).add_to(m)
folium.LayerControl().add_to(m)
m.save('districts.html')
m
```

Out[9]:



In [10]:
```
m = folium.Map(
    location=[np.mean(upazilas['lat']),np.mean(upazilas['lon'])],
    zoom_start=7
)
for index,rows in upazilas.iterrows():
    if rows['lat'] and rows['lon']:
        folium.Marker([rows['lat'], rows['lon']], popup=rows['url']).add_to(m)
folium.LayerControl().add_to(m)
m.save('upazilas.html')
m
```

Out[10]:



In [ ]: