

Lab 10 jQuery, JSON, and XML

Given October 24, 2018

Due November 1, 2018

[Lab 10 jQuery, JSON, and XML](#)

[What you need to have done within lab hours](#)

[Problem 1. Getting JSON Data](#)

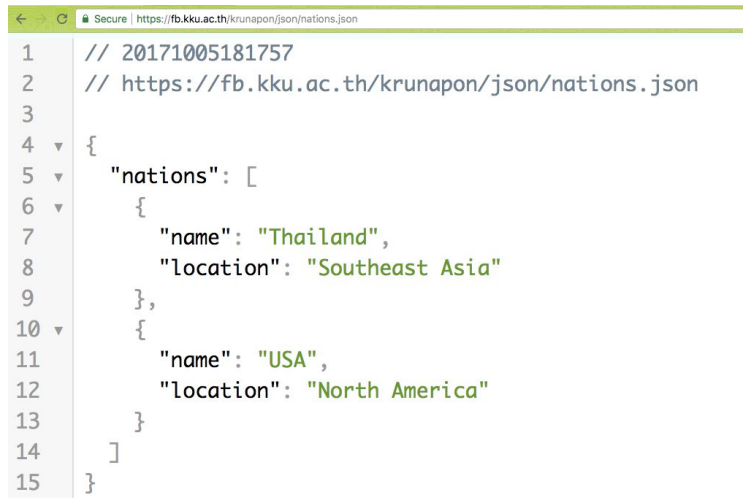
[Problem 2. Getting XML Data](#)

[Problem 3. Retrieving information via Google Geocoding](#)

What you need to have done within lab hours

Problem 1. Getting JSON Data (3 points)

With the input JSON file which is called nations.json as shown in Figure 1.



```
1 // 20171005181757
2 // https://fb.kku.ac.th/krunapon/json/nations.json
3
4 {
5   "nations": [
6     {
7       "name": "Thailand",
8       "location": "Southeast Asia"
9     },
10    {
11      "name": "USA",
12      "location": "North America"
13    }
14  ]
15 }
```

Figure 1: Input file nations.json

Create the web page which is called **getnations.html** that uses jQuery such that it displays each nation name and location as shown in the figure below. Note that the values “Thailand”, “Southeast Asia”, “USA”, and “North America” is not written in the web page but it is obtained from retrieving content at the above URL

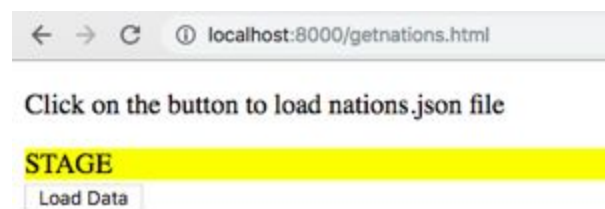


Figure 2: The interface of the web page getnations.html

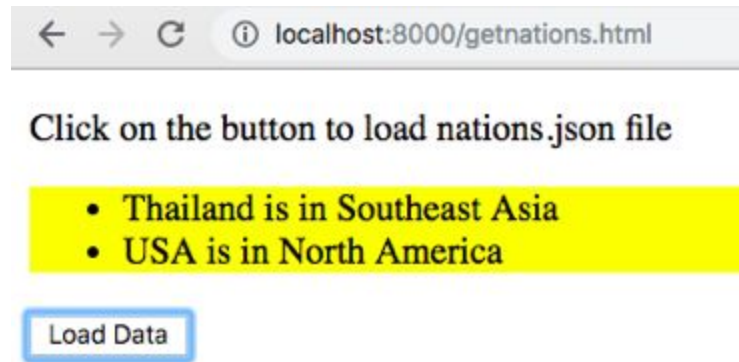


Figure 3: The web page getnations.html after clicking the button “Load Data”

Problem 2. Getting XML Data (3 points)

With the input XML file which is called nations.xml as shown in Figure 4.

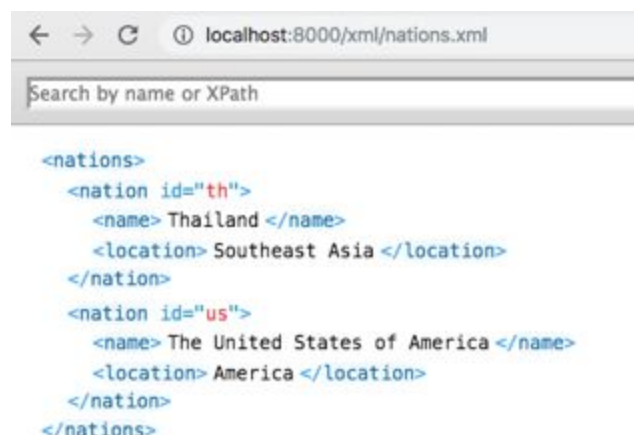


Figure 4: Input file nations.xml

Create the web page which is called **parse-nations.html** that uses jQuery such that it displays each nation name and location as shown in the figure below. Note that the values “Thailand”, “Southeast Asia”, “USA”, and “North America” is not written in the web page but it is obtained from retrieving content at the above URL

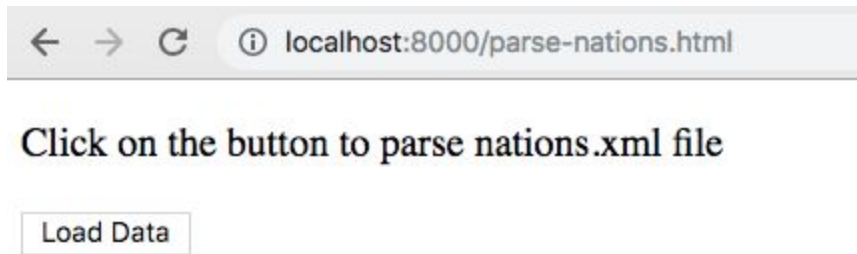


Figure 5: The interface of the web page parse-nations.html

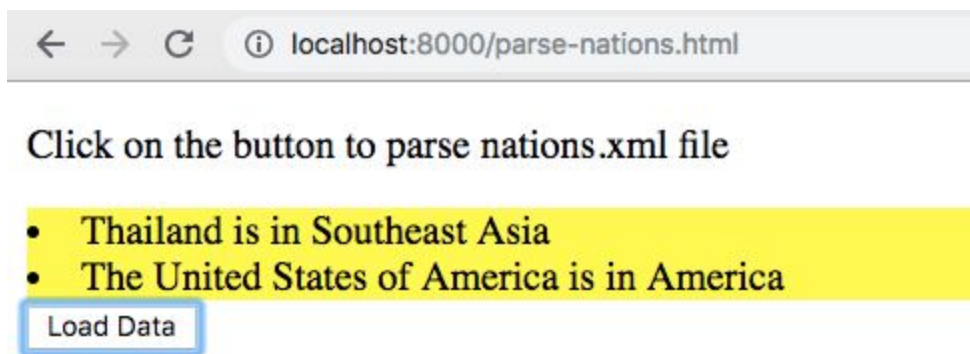


Figure 6: The web page getnations.html after clicking the button “Load Data”

Problem 3. Retrieving information via Google Geocoding (4 points)

Call Google Geocoding at

<https://maps.googleapis.com/maps/api/geocode/xml?address=Khon%20Kaen%20University&key=<key>> in order to get the result as shown in the input in Figure 7 and the output in Figure 8.

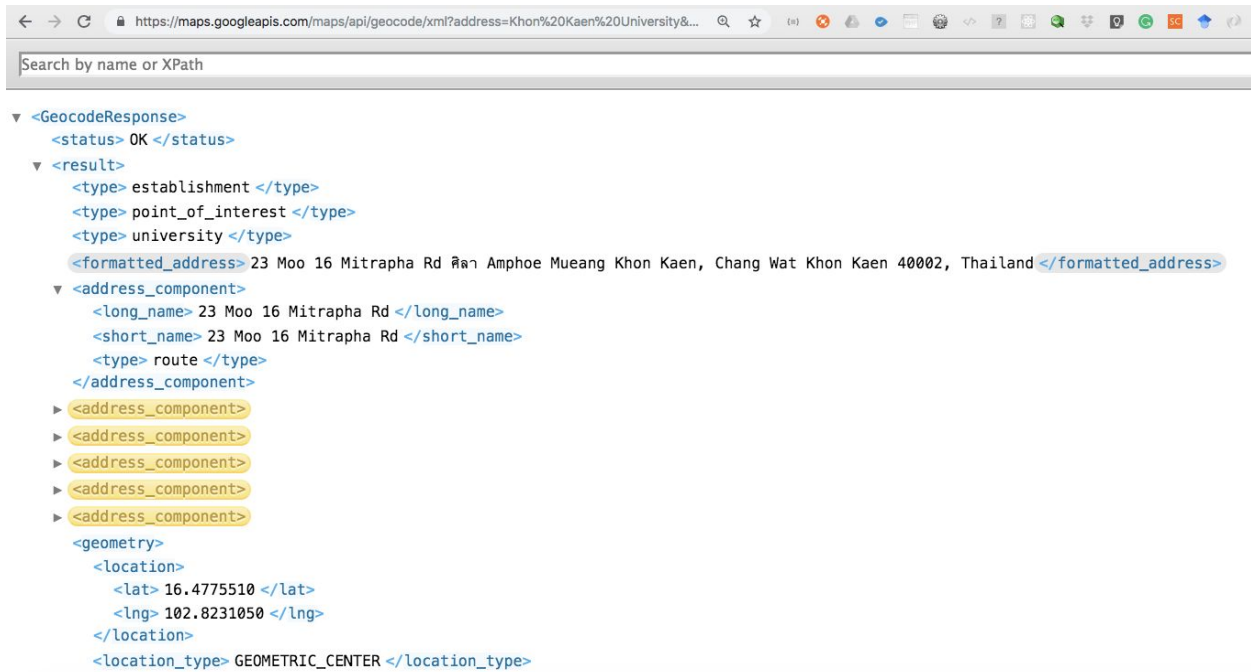


Figure 7: Google Geocoding with requested address = “Khon Kaen University”

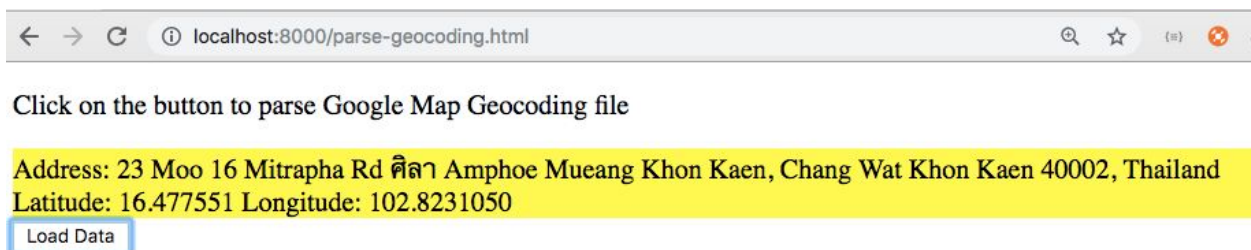


Figure 8: The web page displaying the information via Google Map Geocoding