Web Services

Excercises

First connection

1. **In the Google Chrome web console (F12):**

   - Create an XMLHTTPRequest object
   - Open a connection to receive a current gold price (http://api.nbp.pl/api/cenyzlota)
   - Send a request

2. **Then, in the Google Chrome Web Dev Tools, display the connection details (available in the application menu):**

   - Headers
   - Preview
   - Response
   - Cooking
   - Timing

Status and State

✓ 1.   Open the file statestatus.html in a web browser.

✓ 2.   Click the buton to run the program code in javascript. Then review the results displayed in the console.

✓ 3.   Modify the program to display in the console data received from the server. Data should be displayed only if it has been received correctly, i.e. when readyState = 4 and status = 200.

Data from JSON

1. In a text editor, create a JSON file with your name and surname.

2. Modify the student.html file to display your personal data on the webpage after clicking the button.

3. To display your name nad surname, read the data from the JSON file, then convert the data from a string to a javascript object.

Currency exchange rates

1. **Create a web page that displays current exchange rates of EUR, USD and GBP.**

2. **Read data from the http://api.nbp.pl web service.**

List of personal data

1. **Create a web page that displays the personal data of people contained in the people.json file.**

2. **Display each person's data on a separate line as below.**

3. **Display data after clicking the button.**

```
1. Susi CROWEST, Poland
2. Kathryn SALMONS, Poland
3. Bert FAIRPO, Germany
4. ...
```

Ready to use framework

1. **Familiarize yourself with the data presentation options available at:**

   https://datatables.net/

2. **Then, using that framework, create a web page that displays the data contained in the people.json file.**

Chart

1. **Create a web page that displays a chart of the last 10 gold price quotations.**

2. **To create a chart , use one of the available libraries, e.g.**

   - https://www.chartjs.org/
   - https://naver.github.io/billboard.js/
   - …