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Project Task 2: AJAX call to a live REST API

Find the API that interests you, for example, here:

https://www.programmableweb.com/apis/directory &

LastFM is a proven API with music data:

Project 2: AJAX

https://www.programmableweb.com/api/lastfm 2

One interesting Covid19-themed API is here:

https://covid19api.com/

General description of the task

In this project we will use AJAX to fetch the data from the web. This time the data is not a static file, but rather a stream of data returned by a live server.

From a programmers point of view it makes no difference which data source is used, the process is the same:

- 1. First we ask for the data (Ajax call)
- 2. Save the results into a variable and select what data we want to use
- 3. Display the selected data and make it look nice
- Project will be published in GitHub and deployed to Netlify.
- Comment every line of JavaScript code you write.
- DO not use external libraries.
- Use CSS-styles to style your page.
- All event handlers should be added dynamically! no hard coded onclick -listeners!

Only in pairs/individually, no groups

Projects are done in pairs / individually, no groups are allowed. This will keep you focused on development.

Return

The project work should be returned in GitHub and Netlify by deadline. Return GitHub linki in Optima. Do not copy copy from internet or from someone else. Code will be checked against plagiarism.

Grading

Deliverable will be graded using the scale from 0-30 + 5 points from video demo.

Grade	Description
30 (excellent)	Project excells in performing the requirements and shows in-depth understanding on the subject.
25 (Very Good)	Project exceeds the give requirement and shows good understanding on the subject.
20 (Good)	Project meets the given requirements (functionality, comments, css, dynamic events)
17 (Satisfactory)	Project is missing some requirements
14 (Poor)	Project is missing essential requirements

Additional 5 points if project has been demonstrated in video and delivered with the project.

Assignment

Pick one from these assignments or find an API of your choice (https://github.com/public-apis/public-apis ?:

1. Movie Information APP Using Live REST API from Finnkino/ OMDB API

- Implement a web page, where the user can select a theater from a list
- The page then shows the pictures and info of the ongoing movies in the selected theatre
- Display some other info as well, such as showtimes etc.
- Create nice layout and style for the page
- Extra points will be given for input field with custom search string
- FinnKino REST API can be found at:

http://www.finnkino.fi/xml 🗗

http://www.finnkino.fi/xml/Schedule/

• Open Movie DB can be found at: http://www.omdbapi.com/

• Display some other info as well (songs of the album etc.)

2. Music Information APP utilizing Live JSON API from LiveFM

- Implement a web page, where the user can select different artists from a list shown in page
- The page then shows the pictures and info of the albums of the artist
- Create nice layout and style for the page
- Extra points will be given for input field with custom search string
- LiveFM API is at: https://www.programmableweb.com/api/lastfm

Some HINTS: Get API Key from page: https://www.last.fm/api/webauth and press the text "..apply for one.." to get API Account. When you create the API account for your self the application name is mandatory (callback URL and application homepage are not necessary to fill).

To get requests see the pages e.g. https://www.last.fm/api rand and select e.g. artist.getInfo rand and you will get examples to search artists.

3. Commuter Traffic APP utilizing Live JSON/XML API from Digitraffic

- Implement a web page, where the user can select a trainstation and get the current timetables etc. info concerning that station
- Create nice layout and style for the page
- Extra points will be given for input field with custom search string
- Digitraffic API can be found at:

https://rata.digitraffic.fi/api

https://rata.digitraffic.fi/api/v1/schedules?departure_date=2020-03-01 2

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