Lab: HTTP and REST

1. REST Countries

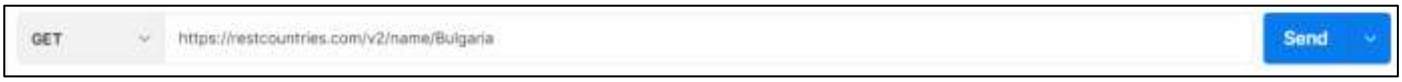
NOTE: Install the "Postman" REST Client to **ease** your tasks.

Your first task is to get detailed information about Bulgaria.

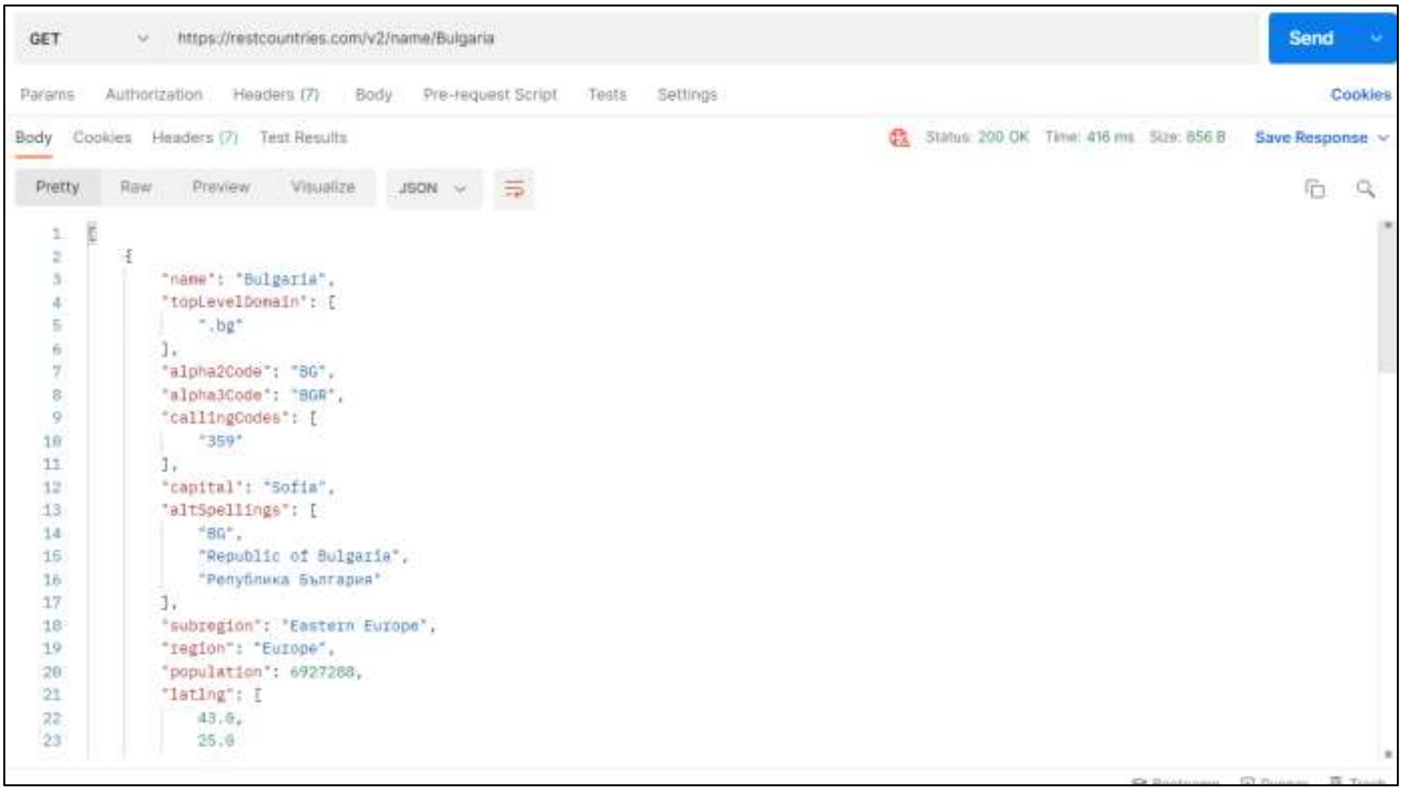
- Send a "**GET**" request to the link given below.
- **Copy** the response in JSON format.

REQUEST:

https://restcountries.com/v2/name/Bulgaria



RESPONSE:



Status: 200 OK Time: 416 ms Size: 856 B

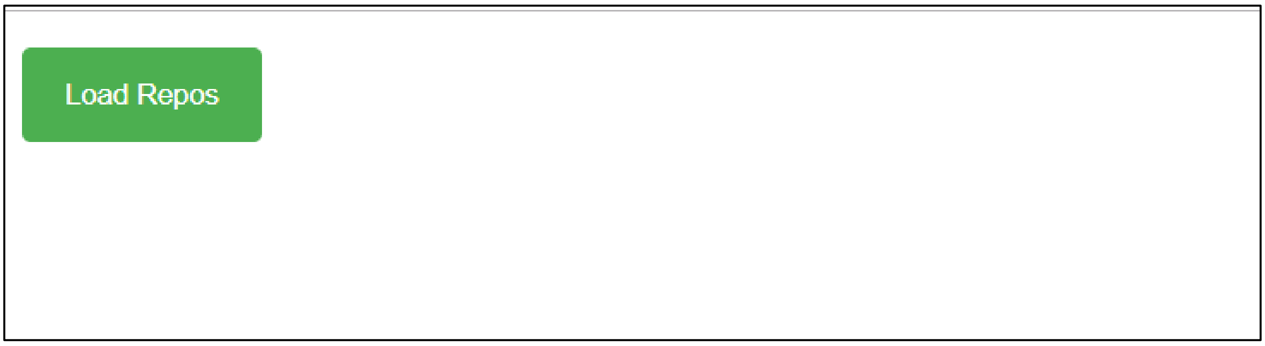
```
[
    {
        "name": "Bulgaria",
        "topLevelDomain": [
            ".bg"
        ],
        "alpha2Code": "BG",
        "alpha3Code": "BGR",
        "callingCodes": [
            "359"
        ],
        "capital": "Sofia",
        "altSpellings": [
            "BG",
            "Republic of Bulgaria",
            "Република България"
        ],
        "subregion": "Eastern Europe",
        "region": "Europe",
        "population": 6927288,
        "latlng": [
            43.0,
            25.0
```

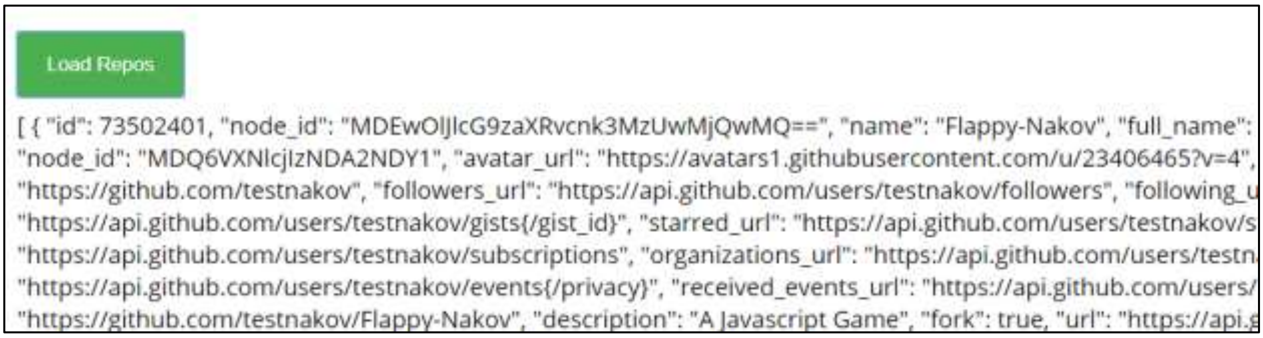
2. GitHub Repos

Your task is to **write** a JS function that **loads** a GitHub repository **asynchronously with AJAX**. You should **use the Fetch API.** Obtain the data by making a **GET** request to the following URL: **“`https://api.github.com/users/testnakov/repos`”**

Transform the **body** to **text** with **res.text()** and in the second **then()** block of the **Promise** replace the text content of a **div** element with **id "res"** with the value from the response. **Do not format** the response in any way.

Examples



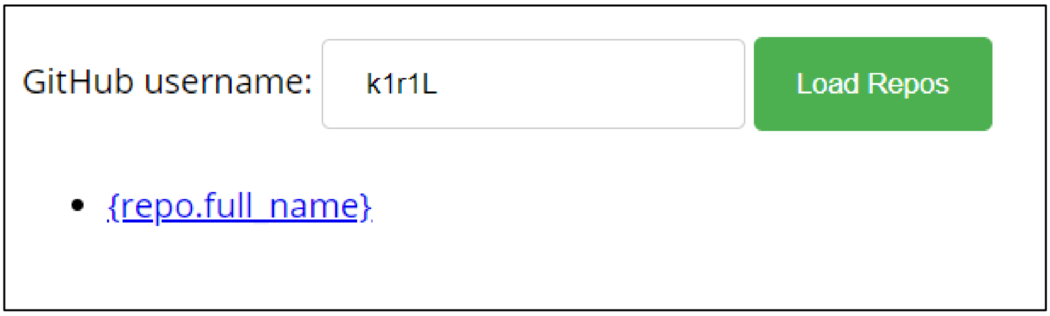


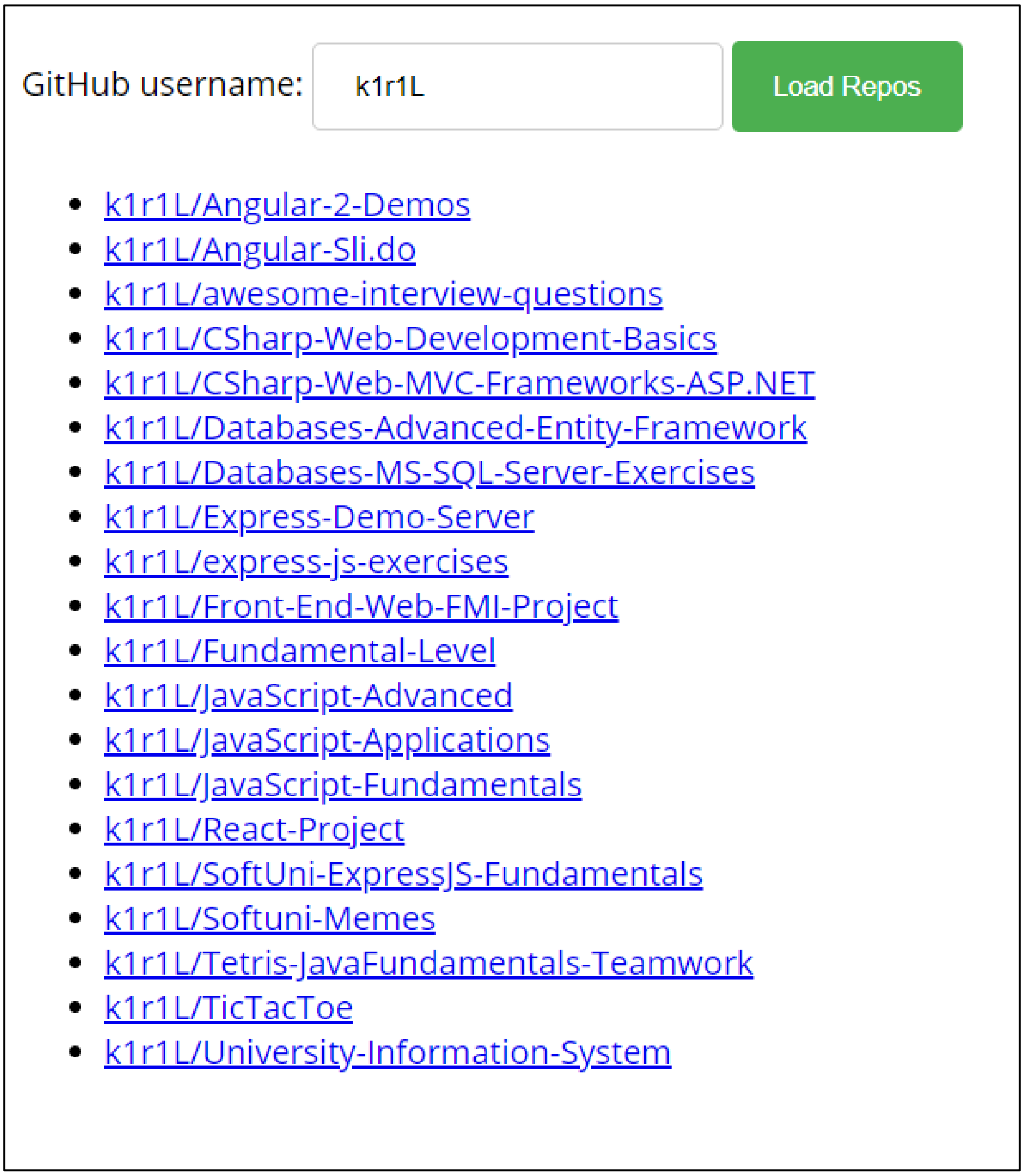
```
[ { "id": 73502401, "node_id": "MDEwOlJlcG9zaXRvcnk3MzUwMjQwMQ==", "name": "Flappy-Nakov", "full_name":
"node_id": "MDQ6VXNlcjIzNDA2NDY1", "avatar_url": "https://avatars1.githubusercontent.com/u/23406465?v=4",
"https://github.com/testnakov", "followers_url": "https://api.github.com/users/testnakov/followers", "following_u
"https://api.github.com/users/testnakov/gists{/gist_id}", "starred_url": "https://api.github.com/users/testnakov/s
"https://api.github.com/users/testnakov/subscriptions", "organizations_url": "https://api.github.com/users/testn
"https://api.github.com/users/testnakov/events{/privacy}", "received_events_url": "https://api.github.com/users/
"https://github.com/testnakov/Flappy-Nakov", "description": "A Javascript Game", "fork": true, "url": "https://api.g
```

3. Github Repos By Username

Your task is to **write** a JS function that **executes** an **AJAX** request with **Fetch API** and loads all user **GitHub repositories** by a given username (taken from an input field with **id "username"**) into a **list** (each repository as a **list-item**) with **id** "**repos**". Use the properties **full_name** and **html_url** of the returned objects to create a link to each repo's GitHub page. If an **error** occurs (like 404 "Not Found"), **append** to the list a list-item with **text** the current instead. Clear the contents of the list before any new content is appended. See the **highlighted lines** of the skeleton for formatting details of each list item.

Examples





GitHub username: k1r1L

- k1r1L/Angular-2-Demos
- k1r1L/Angular-Sli.do
- k1r1L/awesome-interview-questions
- k1r1L/CSharp-Web-Development-Basics
- k1r1L/CSharp-Web-MVC-Frameworks-ASP.NET
- k1r1L/Databases-Advanced-Entity-Framework
- k1r1L/Databases-MS-SQL-Server-Exercises
- k1r1L/Express-Demo-Server
- k1r1L/express-js-exercises
- k1r1L/Front-End-Web-FMI-Project
- k1r1L/Fundamental-Level
- k1r1L/JavaScript-Advanced
- k1r1L/JavaScript-Applications
- k1r1L/JavaScript-Fundamentals
- k1r1L/React-Project
- k1r1L/SoftUni-ExpressJS-Fundamentals
- k1r1L/Softuni-Memes
- k1r1L/Tetris-JavaFundamentals-Teamwork
- k1r1L/TicTacToe
- k1r1L/University-Information-System

4. Github Commits

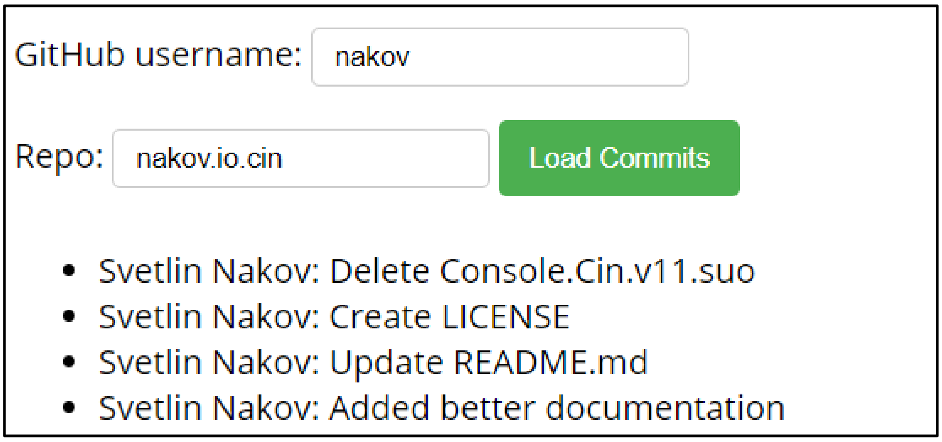
Write a JS program that loads all commit messages and their authors from a GitHub repository using a given HTML.

The **`loadCommits()`** function should get the **username** and **repository** from the HTML textboxes with IDs **`"username"`** and **`"repo"`** and make a **GET** request to the **GitHub API**:
`https://api.github.com/repos/<username>/<repository>/commits`

Swap **`<username>`** and **`<repository>`** with the ones from the HTML:

- In case of **success**, for **each** entry add a **list item** (**`<li>`**) in the **unordered list** (**`<ul>`**) with the **id `"commits"`** with text in the following format:
  `"<commit.author.name>: <commit.message>"`
- In case of an **error**, add a single **list item** (**`<li>`**) with text in the following format:
  `"Error: <error.status> (Not Found)"`

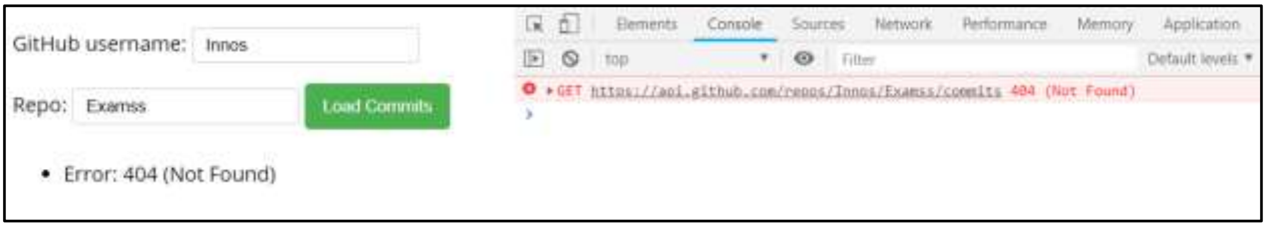
Screenshots:



GitHub username: nakov

Repo: nakov.io.cin

- Svetlin Nakov: Delete Console.Cin.v11.suo
- Svetlin Nakov: Create LICENSE
- Svetlin Nakov: Update README.md
- Svetlin Nakov: Added better documentation



GitHub username: Innos

Repo: Examss

- Error: 404 (Not Found)

```
GET https://api.github.com/repos/Innos/Examss/commits 404 (Not Found)
```