

Exercises: AJAX & jQuery AJAX

1. XHR (XmlHttpRequest)

Your task is to **write** a JS function that **loads** a GitHub repository **asynchronously with AJAX**.

- Create a file called "**xhr.js**" and write the function **loadRepos()** in it. If you take a closer look at the provided skeleton, you will see that this file is linked in the head section.
- **Create** an instance of **XmlHttpRequest** and attach an **onreadystatechange** event to it.
- Replace the text content of a **div** element with **id="res"** with the value of the **responseText** property of the request when the **readyState** attribute reaches a value of **4** (it is ready).
- **Do NOT format** the response in any way. Submit your **loadRepos()** function.

Read more about **XmlHttpRequest** [here](#).

Skeleton

xmlHttpRequest.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>XmlHttpRequest Example</title>
  <script src="xhr.js"></script>
  <style>
    @import url(https://fonts.googleapis.com/css?family=Open+Sans);
    body {
      font-family: "Open Sans", serif;
    }
    button {
      background-color: #4caf50;
      color: white;
      padding: 14px 20px;
      margin: 8px 0;
      border: none;
      border-radius: 4px;
      cursor: pointer;
    }
  </style>
</head>
<body>
  <div id="res">
  </div>
</body>
</html>
```

```

        button:hover {
            background-color: #45a049;
        }
    </style>
</head>
<body>
<button onclick="loadRepos()">Load Repos</button>
<div id="res"></div>
</body>
</html>

```

Example



2. AJAX Load

Use **jQuery** to **write** a JS function that loads an online resource into a div with **id="text"**. Make a request to **"text.html"** and replace the target div element's content with the returned **HTML**. Create the files **ajax-load.html** and **text.html** and place them in the same folder, so that your script can find them.

Submit your **loadTitle()** function.

Skeleton

ajax-load.html
<pre> <!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <title>AJAX Load Example</title> <script src="https://code.jquery.com/jquery-3.1.1.min.js"></script> </pre>

```

<style>
  @import url(https://fonts.googleapis.com/css?family=Open+Sans);
  body {
    font-family: "Open Sans", serif;
  }
  button {
    background-color: #4caf50;
    color: white;
    padding: 14px 20px;
    margin: 8px 0;
    border: none;
    border-radius: 4px;
    cursor: pointer;
  }
  button:hover {
    background-color: #45a049;
  }
</style>
</head>
<body>
<div id="text">
  <h1>AJAX jQuery.load()</h1>
  <button onclick="loadTitle()">Load Title</button>
</div>
</body>
</html>

```

text.html

```

<h1>Voilla!</h1>
<p>I am a text loaded with AJAX request</p>

```

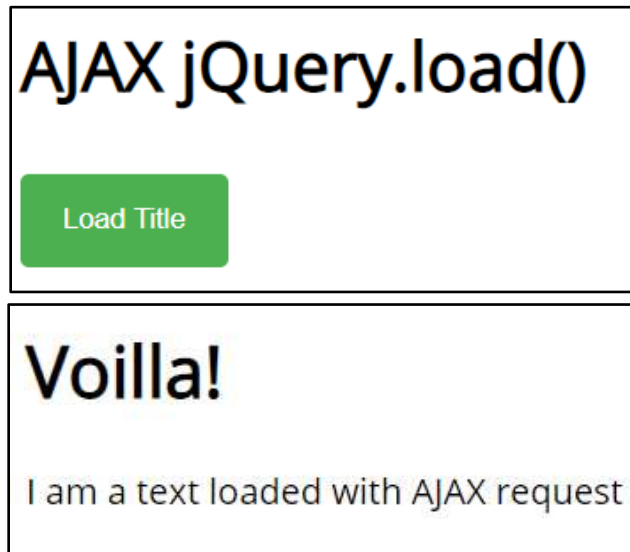
ajax-load.js

```

function loadTitle() {
  // TODO
}

```

Example



3. Github Repos

Your task is to **write** a JS function that **executes** an **AJAX** request with **jQuery** 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** "Error" 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. Submit your **loadRepos()** function that should be created in a file called "**loadRepos.js**".

Skeleton

github-repos.html
<pre><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8"> <title>GitHub Repos</title> <script src="https://code.jquery.com/jquery-3.1.1.min.js"></script> <script src="loadRepos.js"></script> <style> @import url(https://fonts.googleapis.com/css?family=Open+Sans); body { font-family: "Open Sans", serif;</pre>

```

    }
    button {
        background-color: #4caf50;
        color: white;
        padding: 14px 20px;
        margin: 8px 0;
        border: none;
        border-radius: 4px;
        cursor: pointer;
    }
    input[type=text] {
        padding: 12px 20px;
        margin: 8px 0;
        display: inline-block;
        border: 1px solid #ccc;
        border-radius: 4px;
    }
</style>
</head>
<body>
GitHub username:
<input type="text" id="username" value="k1r1L" />
<button onclick="loadRepos()">Load Repos</button>
<ul id="repos">
    <li>
        <a href="{repo.html_url}">
            {repo.full_name}
        </a>
    </li>
</ul>
</body>
</html>

```

Example

GitHub username:

Load Repos

- [k1r1L/Angular-2-Demos](#)
- [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](#)

4. Phonebook

Use **Firestore** and **jQuery** to create a simple phonebook app. The user should be able to see all contacts, **loaded** from the server, **create** a new contact and **delete** any of the contacts. Use the lecture presentation for detailed instructions on this task. Place your code in a file called "phonebook.js", as shown in the skeleton. This task is not evaluated by Judge, it is for practice only.

Skeleton

```
phonebook.html<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Phonebook</title>
  <script src="https://code.jquery.com/jquery-3.1.1.min.js"></script>
  <style>
    @import url(https://fonts.googleapis.com/css?family=Open+Sans);
    body {
      font-family: "Open Sans", serif;
    }
    button {
      background-color: #4caf50;
      color: white;
      padding: 14px 20px;
      margin: 8px 0;
      border: none;
      border-radius: 4px;
```

```

        cursor: pointer;
    }
    input[type=text] {
        padding: 12px 20px;
        margin: 8px 0;
        display: inline-block;
        border: 1px solid #ccc;
        border-radius: 4px;
    }
</style>
</head>
<body>
    <h1>Phonebook</h1>
    <ul id="phonebook"></ul>
    <button id="btnLoad">Load</button>
    <h2>Create Contact</h2>
    Person: <input type="text" id="person" />
    <br>
    Phone: <input type="text" id="phone" />
    <br>
    <button id="btnCreate">Create</button>
    <script src="phonebook.js"></script>
</body>
</html>

```

Example