CSEE5590-0003 ICP Group 3

ICP 4: jQuery & APIs

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Introduction

With websites/web apps performing increasing complex operations, JavaScript libraries are constructed to help streamline such operations for easier development. jQuery is one such example of a JavaScript library which is designed to simplify HTML DOM tree traversal/manipulation, along with event handling, CSS animation, and AJAX requests.

In addition to increased complexity, web apps draw upon APIs for information/content which can also be facilitated by JavaScript libraries. This ICP will explore use of both.

GitHub User Finder

This task involved using a simple text-field interface that would receive a GitHub user's login name and then search, through GitHub's API, for that user's information. Using the given source code, a HTTP request was made to retrieve the corresponding user information, with the user's login being a retrieved from the UI and passed in as a parameter:

```
function getGithubInfo(user) {
    //1. Create an instance of XMLHttpRequest class and send a GET request using it.
    // The function should finally return the object(it now contains the response!)

const url = `https://api.github.com/users/${user}`;

const xmlhttp = new XMLHttpRequest();

xmlhttp.open("GET", url, false);

xmlhttp.send();

return xmlhttp;

}
```

As shown on line 5, the user's login (provided through the UI) is appended to the API endpoint from which a GET request is made to read that information (if it exists). Regardless of what is received, it is saved into the **xmlhttp** variable and then returned to the driving function.

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If the user is found, information pertaining to that user's account is displayed on the UI using jQuery that pulls data from the JSON parsed response of the API.

```
12 v function showUser(user) {
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       $("#profile h2").html(
         `Github profile information for <span class="title">${user.login}</span>`
16
       );
       $(".avatar").html("<img src='' alt='avatar image' id='avatar' />");
       $("#avatar").attr("src", `${user.avatar_url}`);
       $("#userInfo").empty();
       $(".information").css("border", "3px solid #000");
       $("#userInfo").append(
          <span class="title">User Name:</span> ${user.name}`
       );
       $("#userInfo").append(
         `<span class="title">Location:</span> ${user.location}`
```

Alternatively, if the user does not exist, then the UI is cleared and a corresponding message is displayed.

Contribution

All members contributed equally to this report and ICP.