

ICP4

Keenan Flynn – kpfxn8@umsystem.edu – <https://github.com/kfly2fly/Web-Mobile-Spring-2022>
Jasmine Naraine- jnytc@umstystem.edu -<https://github.com/JNaraine/Web>

This ICP focuses on the JQuery library. We used this library to display information from the Github API. When a user inputs a github username into the search bar, their name, profile pic, and github url are displayed on the page. This was done by first creating a XMLHttpRequest object which then queried the Github database. It returned the specified user as a JSON object which was then parsed. After parsing, the relevant information was transformed into HTML elements and appended to the index.html using JQuery.

The profile picture was displayed using a Javascript Image() object. This object was created and then modified. Likewise, the url was first transformed into a Javascript variable and added to using the attr(), text() method, and addClass() method. These were then appended with JQuery selectors. If the user entered a faulty username, the program returns a relevant message and also displays a red 'X' image to notify the user of a failure. This image was also a Javascript Image() object.

We ran into one major challenge in this ICP. We were able to append all of the relevant information, but the URL and profile picture refused to vertically stack. We tried several methods including Bootstrap grids and CSS alignment classes. Our best guess as to why this is happening is that JQuery is appending the elements in a way that is throwing off the alignment. In our final code, the div containers have the Bootstrap class 'flex-row'. More research is needed.

```
index.html ×
1  | !DOCTYPE html>
2  | <html lang="en">
3  |   <!-- Create responsive webpage -->
4  |   <meta name="viewport" content="width=device-width">
5  |   <!-- Import Bootstrap and index.css as stylesheet -->
6  |   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
7  |     integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WnHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
8  |   <link href="style.css" rel="stylesheet">
9  | </html>
10 | <head>
11 |   <title>Github User Finder</title>
12 |   <!-- Add Javascript scripts -->
13 |   <script src="jquery.js" type="text/javascript"></script>
14 |   <script src="script.js" type="text/javascript"></script>
15 | </head>
16 | <!-- Add a background to the body -->
17 | <body class='back'>
18 |   <header>
19 |     <!-- Add text and an image to the header -->
20 |     <h1> <img src = "https://avatars.githubusercontent.com/u/9919?s=200&v=4" alt="Github img"
21 |       height="50"
22 |       width="50">
23 |       Find Me!</h1>
24 |   </header>
25 |   <div id="container">
26 |     <!-- Create the search bar that the user will enter a username into -->
27 |     <div class="search">
28 |       <input id="username" placeholder="enter a github username..." type="text"></input>
29 |     </div>
30 |     <!-- Create the divs where JQuery will insert elements -->
31 |     <div id="profile" class='container'>
32 |       <h2 class='flex-row'></h2>
33 |       <div class="information flex-row"></div>
34 |       <div class="avatar flex-row"></div>
35 |
36   </div>
37 </body>
38 </html>
39
40
```

HTML

```

1  function getGithubInfo(user) {
2      //1. Create an instance of XMLHttpRequest class and send a GET request using it.
3      // The Function should finally return the object(it now contains the response!)
4      var xhttp =new XMLHttpRequest();
5      xhttp.open('GET', "https://api.github.com/users/"+user, false); //create a get request
6      xhttp.send();
7      return xhttp; //return object
8  }
9
10 function showUser(user) {
11     //2. set the contents of the h2 and the two div elements in the div '#profile' with the user content
12     var image = new Image(); //create image object
13     image.src = user.avatar_url; //add github profile pic to image
14
15     var anchor = $("<a>"); //create object for anchor tag
16     anchor.attr('href', user.html_url); //add the url
17     anchor.text('Link to Page'); //add the txt
18     anchor.addClass('Link'); //add custom CSS class
19
20     $('#profile').children('h2').text(user.name + ' - ' +user.login); //add user info to H2 tag
21     $(".avatar").append(image); //add image to avatar id
22     $('.information').append(anchor) //add anchor object to information id
23 }
24
25 function noSuchUser(username) {
26     //3. set the elements such that a suitable message is displayed
27     //set h2 tag with text
28     $('#profile').children('h2').text(username+'does not exist');
29     var image = new Image(); //create image object
30     //add image url
31     image.src = 'https://www.pinclipart.com/picdir/big/562-5624234_png-red-x-red-x-clipart.png';
32     image.height = 200; //customize image dimensions
33     image.weight = 200;
34     $(".avatar").append(image); //append the image
35 }
36
37 $(document).ready(function () {
38     $(document).on('keypress', '#username', function (e) {
39         //check if the enter(i.e return) key is pressed
40         if (e.which == 13) {
41             //get what the user enters
42             username = $(this).val();
43             //reset the text typed in the input
44             $(this).val("");
45             //empty out the divs when new name is entered
46             $(".avatar").empty();
47             $('.information').empty();
48             $('#profile').children('h2').empty();
49             //get the user's information and store the response
50             response = getGithubInfo(username);
51             //if the response is successful show the user's details
52             if (response.status == 200) {
53                 showUser(JSON.parse(response.responseText));
54                 //else display suitable message
55             } else {
56                 noSuchUser(username);
57             }
58         }
59     });
60 });

```

Javascript

Within the CSS file we align the text to the center. Also, when a name is begun to be searched someone's profile will pop out in the center of the webpage with the link to the users page. As the mouse hover over the 'Link to Page,' the link is highlighted. The background image is a url wallpaper from the internet.

```
# style.css > ...
1  /* body */
2  body {
3
4    font-family: Helvetica, Arial, sans-serif;
5    border-top: 5px solid #4c4066;
6    margin: 0px auto;
7    font-size: 14px;
8    color: #666666;
9    font-size: 16px;
10 }
11 }
12 body{
13   background-image: url('https://cdn.wallpapersafari.com/84/44/ZtYR5z.jpg');
14 }
15 /* header */
16 header {
17   text-align: center;
18   background-color: #fdfdfd;
19   border-bottom: 1px solid #e5e2e0;
20 }
21 /* logo */
22 #logo {
23   position: relative;
24   top: -2px;
25 }
26 /* container */
27 #container {
28   width: 1040px;
29   margin: 0px auto;
30   min-height: 750px;
31   text-align: center;
32 }
33 /* input */
34 input[type='text'] {
35   height: 2.2em;
36   font-size: 2em;
37   width: 50%;
38   padding: 5px;
39 }
40 /* information */
41 .information, .avatar {
42   vertical-align: top;
43   display: inline-block;
44   border: 1px solid black;
45 }
46 }
```

CSS



Find Me!

enter a github username...

Jasmine Naraine - JNaraine

[Link to Page](#)



Successful Hit



enter a github username...

a;fohapd0fhpadoes not exist



Unsuccessful Hit

