

ICP – 4 JavaScript and jQuery

Team details:

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Github link: <https://github.com/sarath98-lab/spring-2022/tree/main/Web/ICP4>

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Github link: <https://github.com/SaiKicks/WebMobile-Spring2022/tree/main/web/ICP4>

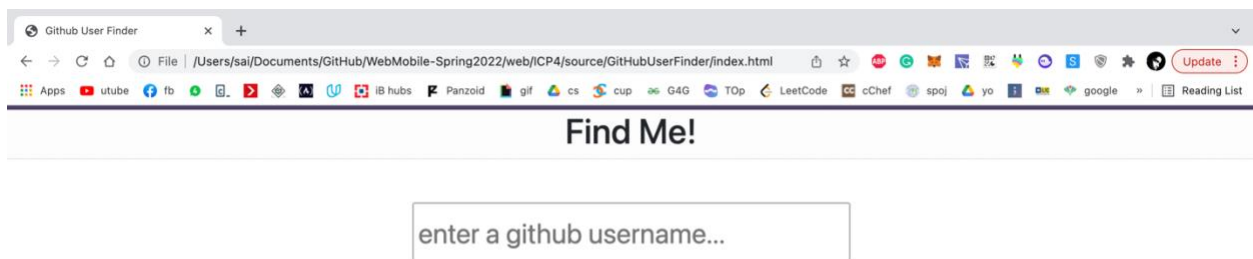
Description:

Current ICP helps in understanding java script and jQuery. The task involves displaying git user information on web page when a particular user is searched with the help of git public APIs.

Git Hub API to fetch user information: <https://api.github.com/users/{user}>

GIT Hub User Finder:

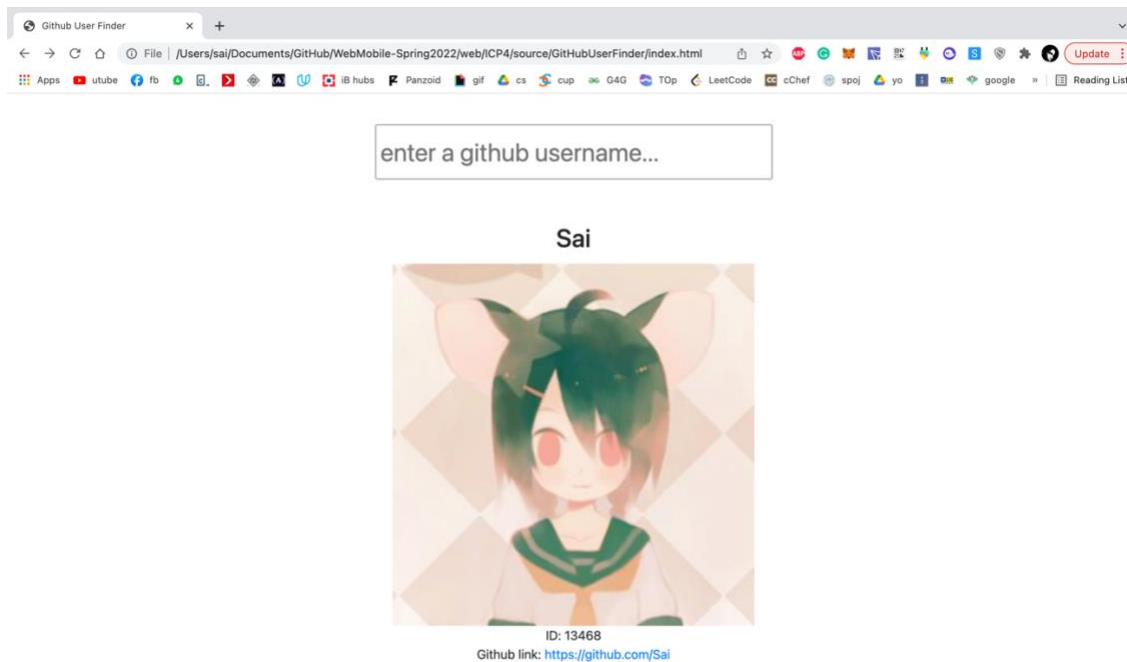
User Interface:



The web page has a search bar where web user can input username of github user he is interested in.

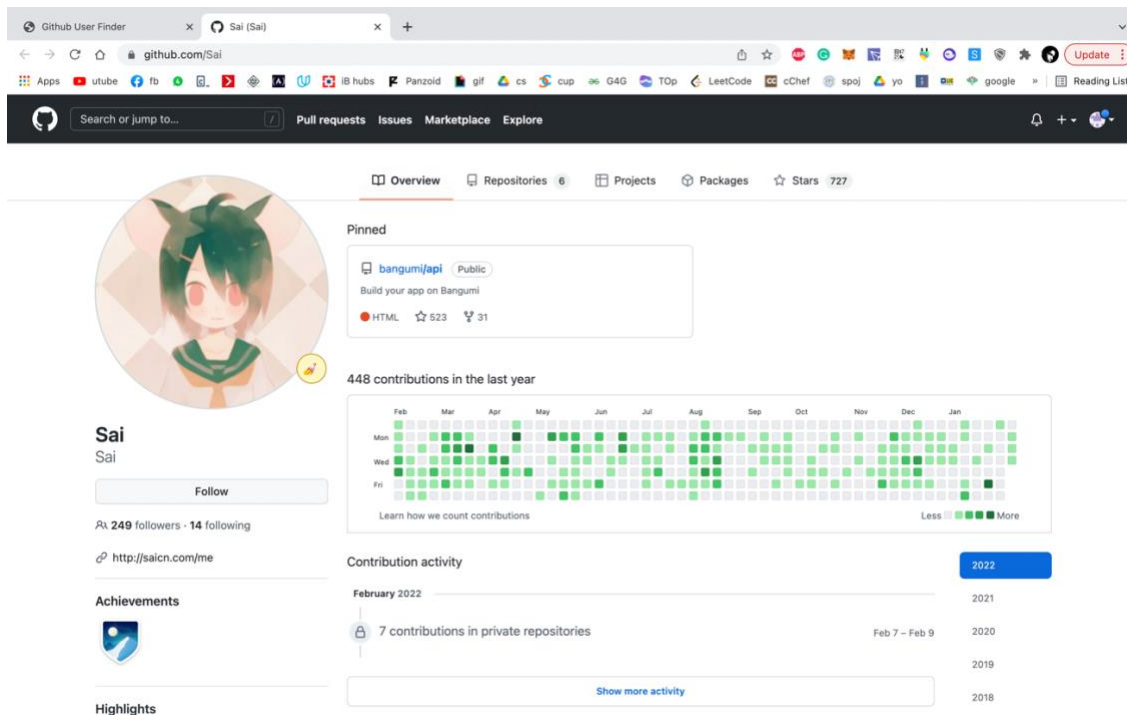
If the username exists then name, avatar, ID and github link are displayed on the page.

Web page when user exists:



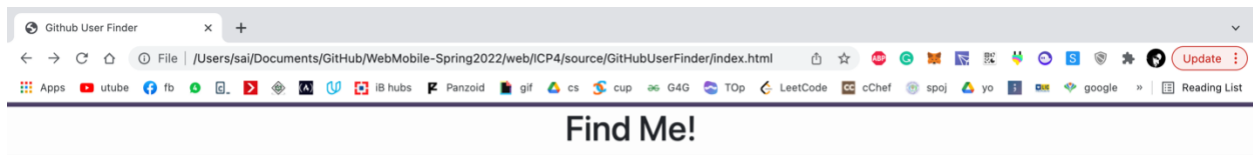
When clicked on the github link, github profile of the user is opened on separate tab.

GitHub user profile when clicked on link:



When an invalid username is typed an error message is shown to try with different username.

No such user web page:



No such user please try different username!

Source code:

HTML:

```
index.html - Untitled (Workspace)
1 <html>
2 <head>
3   <title>Github User Finder</title>
4   <link href="style.css" rel="stylesheet">
5   <script src="jquery.js" type="text/javascript"></script>
6   <script src="script.js" type="text/javascript"></script>
7   <!-- To add bootstrap -->
8   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.2.1/css/bootstrap.min.css" integrity="sha384-GJzZqF
9
10 </head>
11 <body>
12 <header>
13   <h1>Find Me!</h1>
14 </header>
15 <div id="container" class="container-fluid">
16   <div class="search">
17     <input id="username" placeholder="enter a github username..." type="text"></input>
18   </div>
19   <div id="profile">
20     <!-- Using bootstrap grid layout -->
21     <h2 class="row-md-12"></h2>
22     <div class="avatar row-md-12"></div>
23     <div class="information row-md-12"></div>
24     <div class="github-link row-md-12"></div>
25   </div>
26 </div>
27 </body>
28 </html>
```

To add user information div tags with classes avatar, information and github-link are added.

Using bootstrap grid layout these div element are arranged on web page.

JavaScript:

```
script.js - Untitled (Workspace)
1
2 function getGithubInfo(user) {
3   //1. Create an instance of XMLHttpRequest class and send a GET request using it.
4   // The function should finally return the object(it now contains the response!)
5   var xhr = new XMLHttpRequest();
6   // GET api call git to fetch user details
7   xhr.open('GET', 'https://api.github.com/users/'+user, false);
8   xhr.send();
9   return xhr;
10 }
11
12 function showUser(user) {
13   //2. set the contents of the h2 and the two div elements in the div '#profile' with the user content
14   // Setting content of user on web page
15   $("#profile").children('h2').text(user.name);
16   $(".avatar").html("<img src='"+user.avatar_url+"'>");
17   $(".information").html("<div class='col-md-12'>ID: '"+user.id+"</div>");
18   $(".github-link").html("Github link: <a href='"+user.html_url+"' target='_blank'> "+user.html_url+" </a>");
19 }
20
21 function noSuchUser(username) {
22   //3. set the elements such that a suitable message is displayed
23   // Clearing the content and showing no such user msg
24   $("#profile").children('h2').text("No such username exists, please try different username!");
25   $(".avatar").text("");
26   $(".information").text("");
27   $(".github-link").text("");
28 }
29
30 $(document).ready(function () {
31   //3. set the elements such that a suitable message is displayed
32   // Clearing the content and showing no such user msg
33   $("#profile").children('h2').text("No such username exists, please try different username!");
34   $(".avatar").text("");
35   $(".information").text("");
36   $(".github-link").text("");
37 })
```

JavaScript has 3 main methods getGithubInfo, showUser and noSuchUser

getGithubInfo():

This function fetches info of the user using username.

With the help of XMLHttpRequest function, we can make an API call with GET method on GitHub user api and fetch user info

showUser():

Using jQuery this function adds content onto the webpage

noSuchUser():

This function adds an error message when no user exists with the search username.

Learnings from the lesson:

- XMLHttpRequest function to make API calls.
- jQuery to manipulate data on web page.

Issue with the lesson:

No issues, overview of jQuery is well discussed in class and ICP made it clearer.

Contribution:

Equal contribution was made to complete java script functions.