

ICP-4

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GitHub Repo link:

<https://github.com/Yaswanthypfm7/WebDevCourse/tree/main/WebPart/ICP3>

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GitHub Repo Link:

<https://github.com/TejdeepP/WebProgrammingSpring2022/tree/main/WebPart/ICP3>

Introduction:

JavaScript "This" keyword is the most used keywords in JavaScript. This refers to a specific object. Now, what that object is depends on how a function that includes the "this" keyword is called. It can be used globally with certain methods like call () , apply() , bind() etc.

All JavaScript objects adapts the properties and methods from a prototype.

jQuery is a flexible & robust JavaScript library. The benefit of using it to build a reliable webpage. jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish and wraps them into methods that you can call with a single line of code.

It also simplifies the ajax calls and DOM to the easier ways.

Tasks:

In this ICP we have created a webpage where it will call the GitHub user details when clicked on the search with the API. The result will be pushing the user details like ID , Date Created , Number of Repositories , GitHub link that will redirect to GitHub and Repository links.

Code:

In Index.html we have created a webpage that results the GitHub user details. We have created a div and named as “container” for entire web page and for search. Taking the input from the user with Input tag and given placeholder for the same.

We have created a div class for “avatar” with an image tag .Also, we have created a div class named information which will redirect to the GitHub and Reposlink with href tag.Givrn target='blank' which means it will open in a new window when user clicks on it.

```
index.html > html > body > div#container > div
25 </header>
26
27 <!--Creating a div class with id for entire webpage-->
28 <div id="container">
29
30 <!--Creating a div class for Search-->
31 <div class="search">
32
33 <!--Taking input from the user with ID-->
34 <input id="username" placeholder="enter a github username..." type="text"></input>
35 </div>
36 <div id="profile">
37 <h2></h2>
38 </div>
39 <div>
40 <!--Created a div class for image with avatar -->
41 <div class="avatar">
42 <img src="" alt="" width="100" height="100">
43 </div> <br/>
44
45 <!--Created a div for Github and Repos links -->
46 <div id="pop" class="information">
47 <a id="a1" href="" target="blank">Github link</a>
48 <p></p>
49 <a id="a2" href="" target="blank">ReposLink</a>
50 </div>
51
52 </div>
53 </div>
54
55 </body>
56 </html>
```

The Styling for the HTML is given in a style.css and is linked in HTML. Also the jQuery script is linked to html file. The jQuery library is imported with source tag and java script has been linked in the html with script tag.

```
< index.html X JS script.js # style.css 1
< index.html > html > body > div#container > div
1 <html>
2 <head>
3   <!--Title of the Page as GitHub User Finder using title tag-->
4   <title>Github User Finder</title>
5
6   <!--linking the style sheet importing it here with link tag-->
7   <link href="style.css" rel="stylesheet">
8
9   <!--linked the jquery script of javascript using script tag-->
10  <script src="jquery.js" type="text/javascript"></script>
11
12  <!--Linked the JQuery library-->
13  <script
14  src="https://code.jquery.com/jquery-3.6.0.slim.min.js"
15  integrity="sha256-u7e5khyithlIdTpu22PHhENmPcRdFiHRjhAuHcs05RI="
16  crossorigin="anonymous"></script>
17
18  <!--Linked the javascript file here -->
19  <script src="script.js" type="text/javascript"></script>
20 </head>
21 <body>
22 <!--Header of the Page as Fine Me! using <h> tag</h-->
23 <header>
24   <h1>Find Me!</h1>
25 </header>
26
27 <!--Creating a div class with id for entire webpage-->
28 <div id="container">
29
30   <!--Creating a div class for Search-->
31   <div class="search">
32
33     <!--Taking input from the user with ID-->
34     <input id="username" placeholder="enter a github username..." type="text"></input>
35   </div>
36   <div id="profile">
```

Stylesheet

The CSS has been written in style.css file where we had given styles for body , header , logo, container ,information , search and profile.

```
<> index.html    JS script.js    # style.css 1 X
# style.css > ...
1  /*Styling for body starts*/
2  body {
3      font-family: Helvetica, Arial, sans-serif;
4      border-top: 5px solid #4c4066;
5      margin: 0px auto;
6      font-size: 14px;
7      color: #666666;
8      font-size: 16px;
9  }
10 /*Styling for body ends*/
11
12 /*Styling for Header starts*/
13 header {
14     text-align: center;
15     background-color: #fdfdfd;
16     border-bottom: 1px solid #e5e2e0;
17 }
18 /*Styling for Header ends*/
19
20 /*Styling for logo starts*/
21 #logo {
22     position: relative;
23     top: -2px;
24 }
25 /*Styling for logo ends*/
26
27 /*Styling for container starts*/
28 #container {
29     width: 1040px;
30     margin: 0px auto;
31     min-height: 750px;
32     text-align: center;
33 }
34 /*Styling for container starts*/
35
36 /*Styling for input starts*/
37 input[type='text'] {
```

The logic is written in JavaScript file as shown below:

We have created a function for GitHubInfo and creating an instance for XMLHttpRequest where we fetch the information from GitHub Users URL. Initially we are creating an object for the http request and opening it with GET request URL and once we get the request we are sending it and returning the response.

Function created with Users info like profile , image , USER ID , GitHub and repo links details

```

JS script.js > showUser
1
2
3 function getGithubInfo(user) {
4     //1. Create an instance of XMLHttpRequest class and send a GET request using it.
5     // The function should finally return the object(it now contains the response!)
6     var userName=user;
7     var reqUrl="https://api.github.com/users/"+ userName;
8
9     const xmlhttp= new XMLHttpRequest();
10    xmlhttp.open('GET',reqUrl,false);
11    xmlhttp.send();
12    return xmlhttp;
13
14
15 }
16
17 function showUser(data) {
18
19     $("#profile").html(data.login );
20     $("#img").attr("src", data.avatar_url);
21     $("#a1").attr("href",data.html_url);
22     $("#pop > p").text("User Id: "+ data.id);
23     $("#pop > p").append("<br/>" + "Date Created: "+ data.created_at + "<br />");
24     $("#pop > p").append("<br/>" + "No of public Repositories: "+ data.public_repos + "<br />");
25     $("#a2").attr("href",data.repos_url);
26
27
28     //2. set the contents of the h2 and the two div elements in the div '#profile' with the user content
29 }
30
31 function noSuchUser(username) {
32     //3. set the elements such that a suitable message is displayed
33 }

```

On keypress checking if users enters and key is pressed we are calling the GitHub user and getting the response and storing the response in a JSON and showing it.If Response is 200OK that means we have successfully hit the API and got the response.

```

30
31 function noSuchUser(username) {
32     //3. set the elements such that a suitable message is displayed
33 }
34
35 $(document).ready(function () {
36     $(document).on('keypress', '#username', function (e) {
37         //check if the enter(i.e return) key is pressed
38         if (e.which == 13) {
39             //get what the user enters
40             username = $(this).val();
41             //reset the text typed in the input
42             $(this).val("");
43             //get the user's information and store the response
44             response = getGithubInfo(username);
45             var data=JSON.parse(response.responseText)
46             console.log(data)
47             //if the response is successful show the user's details
48             if (response.status == 200) {
49                 showUser(data);
50                 //else display suitable message
51             } else {
52                 noSuchUser(username);

```

Output:

Find Me!

enter a github username...

TejdeepP



[Github link](#)

User Id: 98192693

Date Created: 2022-01-21T22:43:48Z

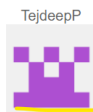
No of public Repositories: 3

[ReposLink](#)

Entering the GitHub user name : TejdeepP and received the response for the same

Find Me!

TejdeepP



[Github link](#)

User Id: 98192693

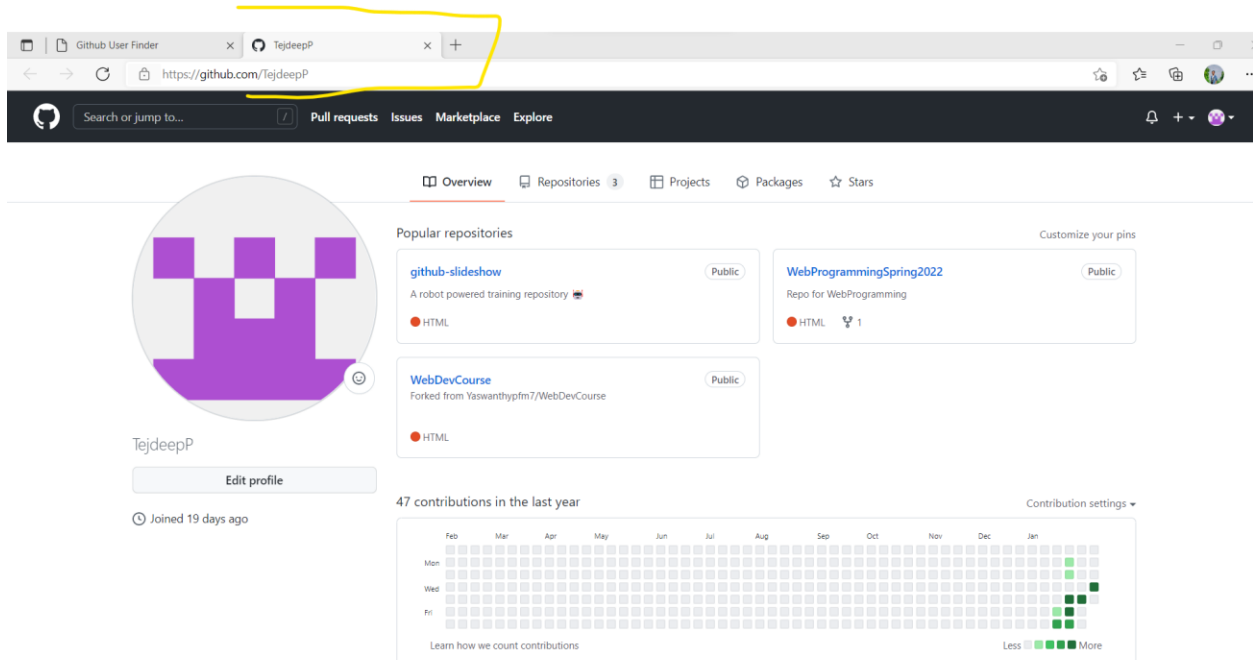
Date Created: 2022-01-21T22:43:48Z

No of public Repositories: 3

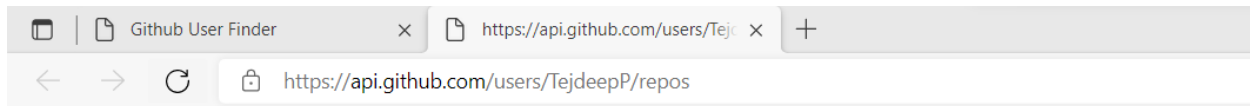
[ReposLink](#)

```
script.js:46
[{"login": "TejdeepP", id: 98192693, node_id: "U_kgD0BdpMNQ", avatar_url: "https://avatars.githubusercontent.com/u/98192693?v=4", gravatar_id: "", ...}]
  avatar_url: "https://avatars.githubusercontent.com/u/98192693?v=4"
    bio: null
    blog: ""
    company: null
    created_at: "2022-01-21T22:43:48Z"
    email: null
    events_url: "https://api.github.com/users/TejdeepP/events{/privacy}"
    followers: 0
    followers_url: "https://api.github.com/users/TejdeepP/followers"
    following: 0
    following_url: "https://api.github.com/users/TejdeepP/following{/other_username}"
    gists_url: "https://api.github.com/users/TejdeepP/gists{/gist_id}"
    gravatar_id: ""
    hireable: null
    html_url: "https://github.com/TejdeepP"
    id: 98192693
    location: null
    login: "TejdeepP"
    name: null
    node_id: "U_kgD0BdpMNQ"
    organizations_url: "https://api.github.com/users/TejdeepP/orgs"
    public_gists: 0
    public_repos: 3
    received_events_url: "https://api.github.com/users/TejdeepP/received_events{/event_type}"
    repos_url: "https://api.github.com/users/TejdeepP/repos"
    site_admin: false
    starred_url: "https://api.github.com/users/TejdeepP/starred{/owner}{/repo}"
    subscriptions_url: "https://api.github.com/users/TejdeepP/subscriptions"
    twitter_username: null
    type: "User"
    updated_at: "2022-01-28T02:11:14Z"
    url: "https://api.github.com/users/TejdeepP"
  }]
```

When clicked on GitHub link – it opened in a new window and pulled the user GitHub details



When clicked on Reposlinks it pulled the repository links



```
[
  {
    "id": 450705775,
    "node_id": "R_kgDOGt05bw",
    "name": "github-slideshow",
    "full_name": "TejdeepP/github-slideshow",
    "private": false,
    "owner": {
      "login": "TejdeepP",
      "id": 98192693,
      "node_id": "U_kgDOBdpNNQ",
      "avatar_url": "https://avatars.githubusercontent.com/u/98192693?v=4",
      "gravatar_id": "",
      "url": "https://api.github.com/users/TejdeepP",
      "html_url": "https://github.com/TejdeepP",
      "followers_url": "https://api.github.com/users/TejdeepP/followers",
      "following_url": "https://api.github.com/users/TejdeepP/following{/other_user}",
      "gists_url": "https://api.github.com/users/TejdeepP/gists{/gist_id}",
      "starred_url": "https://api.github.com/users/TejdeepP/starred{/owner}/{repo}",
      "subscriptions_url": "https://api.github.com/users/TejdeepP/subscriptions",
      "organizations_url": "https://api.github.com/users/TejdeepP/orgs",
      "repos_url": "https://api.github.com/users/TejdeepP/repos",
      "events_url": "https://api.github.com/users/TejdeepP/events{/privacy}",
      "received_events_url": "https://api.github.com/users/TejdeepP/received_events",
      "type": "User",
      "site_admin": false
    },
    "html_url": "https://github.com/TejdeepP/github-slideshow",
    "description": "A robot powered training repository :robot:",
    "fork": false,
    "url": "https://api.github.com/repos/TejdeepP/github-slideshow",
    "forks_url": "https://api.github.com/repos/TejdeepP/github-slideshow/forks",
    "keys_url": "https://api.github.com/repos/TejdeepP/github-slideshow/keys{/key_id}",
    "collaborators_url": "https://api.github.com/repos/TejdeepP/github-slideshow/collaborators{/collaborator}",
    "teams_url": "https://api.github.com/repos/TejdeepP/github-slideshow/teams",
    "hooks_url": "https://api.github.com/repos/TejdeepP/github-slideshow/hooks",
    "issue_events_url": "https://api.github.com/repos/TejdeepP/github-slideshow/issues/events{/number}",
    "events_url": "https://api.github.com/repos/TejdeepP/github-slideshow/events",
    "assignees_url": "https://api.github.com/repos/TejdeepP/github-slideshow/assignees{/user}",
    "branches_url": "https://api.github.com/repos/TejdeepP/github-slideshow/branches{/branch}",
    "tags_url": "https://api.github.com/repos/TejdeepP/github-slideshow/tags",
    "blobs_url": "https://api.github.com/repos/TejdeepP/github-slideshow/git/blobs{/sha}",
    "git_tags_url": "https://api.github.com/repos/TejdeepP/github-slideshow/git/tags{/sha}",
    "git_refs_url": "https://api.github.com/repos/TejdeepP/github-slideshow/git/refs{/sha}",
    "trees_url": "https://api.github.com/repos/TejdeepP/github-slideshow/git/trees{/sha}",
    "statuses_url": "https://api.github.com/repos/TejdeepP/github-slideshow/statuses/{sha}",
    "languages_url": "https://api.github.com/repos/TejdeepP/github-slideshow/languages",
    "stargazers_url": "https://api.github.com/repos/TejdeepP/github-slideshow/stargazers",
```

Contribution:

We have contributed Equally.