#### **TEAMMATES:**

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# ICP4 - Report

### **Programming Tools:**

GitHub, VS Code

#### **Source Code:**

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https://github.com/JVSPAVAN/WebMobile-2022Spring/tree/ICP4/Web/ICP4

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https://github.com/VamsiAlapaty/Web-Mobile-Spring2022/tree/ICP4

### Task:

As part of ICP4, a GitHub user finder web app has been developed using HTML, CSS and Javascript.

### **Description:**

JavaScript is a high-level, often just-in-time compiled language that uses ECMAScript standard JavaScript is a scripting language that enables you to create dynamically updating content. It interacts with the DOM elements.

AJAX stands for 'Asynchronous JavaScript And XML'. It communicates with the servers using the XMLHttpRequest objects. It can send and receive the json objects or HTML or text files. It helps to make requests to the server without reloading the page.

Using ajax calls, the API data for the given username is obtained. 'get' method is used to obtain the json data of requested username. It is displayed on the HTML page using the dynamic HTML code in the JavaScript file.

'getGithubInfo' function is called when the enter key is pressed after entering the username in the HTML page. In this function the 'GET' call is made to receive the data from the API. The obtained data is put sent to 'showUser' function.

The received user data is given below:

```
"login": "JVSPAVAN",
"id": 25749879,
"node_id": "MDQ6VXNlcjl1NzQ5ODc5",
"avatar_url": "https://avatars.githubusercontent.com/u/25749879?v=4",
"gravatar_id": "",
"url": "https://api.github.com/users/JVSPAVAN",
"html_url": "https://github.com/JVSPAVAN",
"organizations_url": "https://api.github.com/users/JVSPAVAN/orgs",
"repos_url": "https://api.github.com/users/JVSPAVAN/repos",
"type": "User",
"name": "JVS PAVAN",
"email": null,
"bio": null,
"public_repos": 11,
"followers": 2,
"following": 1,
"created_at": "2017-02-13T17:15:00Z",
"updated_at": "2022-01-29T21:56:54Z"
```

'document.getElementId' is used to retrieve the required HTML element. '.innerHTML' attribute is used to put the text dynamically on the HTML page.

As per the task, the below items are displayed on the HTML page.

- Username
- Avatar
- Git ID
- GitHub Link

In addition to this, the below items are shown.

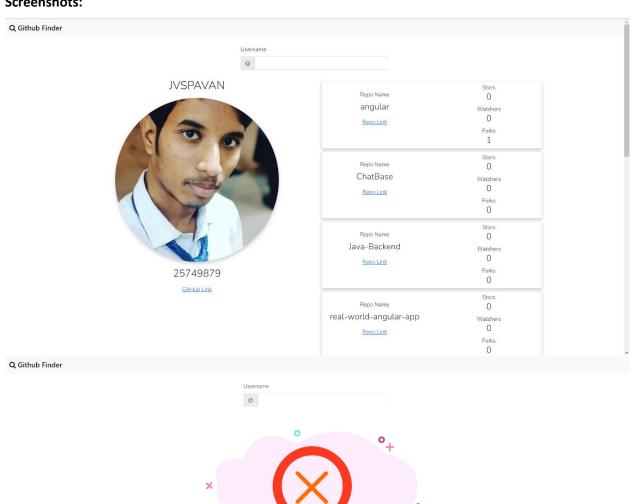
- Repo names
- Stars per each repo
- Watchers per each repo
- Forks per each repo
- Repo link

The list of repos is obtained with another 'GET' call to the API. The obtained data is displayed by iterating in the JavaScript file using 'for' loop. This data is displayed using dynamic HTML code in the JavaScript file.

# Under the exceptional case:

If a username is not existed in the GitHub database, then a 'user not found' page will be displayed.

#### **Screenshots:**



Oops! No Data found. We will provide this soon.