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GitHub link: https://github.com/kunisettysarath/WebMobileProgramming-Spring22/tree/main/WebDevelopment/ICP's/ICP4


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GitHub link:  https://github.com/VenubabuLinga/WebDevCourse/tree/main/WEB_DEV/ICP4

# ICP 4

## Objective:

       The objective of this ICP4 is to understand how one can access API's using JQuery and consume the data from the API's to view the required info at the user's end by building a small webpage to fetch user's github profile information.

**JQuery:**

       JQuery is one of the libraries in Javascript, which was created to make the Javascript development easier. It is mostly used for Document object model(DOM) modification, Css Modification, AJAX(Asynchronous Javascript and XML). Using JQuery one can avoid writing redundant code which would consume lot of effort and time.

**Tasks:**

- Created "ICP4-submission" branch in the remote repository and have checkout to that branch using GitHub desktop
- Then required folders for source and documentation was created for icp4 and the source folder was imported in VS code
- Downloaded the template code from the canvas and add the code as per requirement.
- Later pushed the code and merged the branch to the master

**Index.html:**

```html
<html>
<head>
    <title>Github User Finder</title>
    <link href="style.css" rel="stylesheet">
    <script src="jquery.js" type="text/javascript"></script>
    <script src="script.js" type="text/javascript"></script>
</head>
<body>
<header>
    <h1>Find Me!</h1>
</header>
<div id="container">
    <div class="search">
        <input id="username" placeholder="enter a github username..." type="text"></input>
    </div>
    <div id="profile">
        <h2></h2>
        <div class="avatar"></div>
        <div class="information"></div>
    </div>
</div>

</body>
</html>
```

**Script.js:**

ready() function makes sure that the script is not executed until the webpage is loaded completely. Later we are validating the "**Enter**" key press inorder to continue fetching the user's profile based in the input. The user's input is then passed to the "**getGithubInfo()**" method.

```javascript
$(document).ready(function () {
  $(document).on("keypress", "#username", function (e) {
    if (e.which == 13) {
      username = $(this).val();
      $(this).val("");
      getGithubInfo(username);
    }
  });
});
```

Here based on the user's input the API call is made using XMLHttpRequest. Based on the response two methods are invoked respectively. "**showUser**" if the user is valid, "**noSuchUser**" if the user is invalid.

```javascript
function getGithubInfo(user) {
  var req = new XMLHttpRequest();
  var res;
  req.open("Get", "https://api.github.com/users/" + user, true);
  req.onload = function () {
    if (req.status == 200) showUser(JSON.parse(req.responseText));
    else noSuchUser(username);
  };
  req.send();
}
```

If the user is valid then the respective details are fetched from the response like profile picture, user ID, github user url are displayed on the webpage

```javascript
function showUser(user) {
  console.log(user);
  $("#profile > h2").html("User Name - " + user.login);
  var userInfo;
  userInfo =
    "<img src='" +
    user.avatar_url +
    "' alt='users profile picture' style='height:200px;'>";
  userInfo = userInfo + "<p> user ID - " + user.id + "</p>";
  userInfo =
    userInfo + "<a href='" + user.html_url + "'>Click to view user account</a>";
  $(".avatar").html(userInfo);
}
```

If the user is invalid then user not found message is displayed in the webpage

```javascript
function noSuchUser(username) {
  $("#profile > h2").html("Unable to find the user - '" + username + "'");
  $(".avatar").html("");
}
```

**Output:**