**TITLE:**

Exploring the world of HTTP

# OBJECTIVE:

* Get Familiar with the HTTP request and response
* Get Familiar with the HTTP client tool
  + Postman
  + Curl
* Get Familiar with the basics of api

# RELATED THEORY:

* **HTTP:**
  + Stands for HyperText Transfer Protocol
  + It is simply a set of rules for data transference between the client and server
  + It is the foundation of the web and is used to transfer all sorts of data like HTML pages, images, videos, etc,.
* **API:**
  + Stands for Application Programming Interface
  + It is the set of rules and protocols that allows diﬀerent softwares to interact and communicate with each other

# SOURCE CODE:

## HTML and JS Code:

1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4. <meta charset="UTF-8">
5. <meta name="viewport" content="width=device-width, initial-scale=1.0">
6. <title>Document</title>
7. <!-- axios cdn link -->
8. <script src="https://cdn.jsdelivr.net/npm/axios/dist/axios.min.js"></script>
9. <!-- lord icon cdn link -->
10. <script src="https://cdn.lordicon.com/bhenfmcm.js"></script>
11. <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.2/css/all.min.css"
12. integrity="sha512-z3gLpd7yknf1YoNbCzqRKc4qyor8gaKU1qmn+CShxbuBusANI9QpRohGBreCFkKxLhei6S9CQXFEbbKuqLg0DA=="
13. crossorigin="anonymous" referrerpolicy="no-referrer" />
14. </head>
15. <body>
16. <div class="github-logo">
17. <i class="fa-brands fa-github corner-stamp" style="font-size: 64px;"></i>
18. </div>
19. <div class="section">
20. <div class="search-form" id="search\_form">
21. <h2 class="title">
22. Search For Github User
23. <!-- <i class="fa-brands fa-github fa-beat" style="color: #a554ed;"></i> -->
24. </h2>
25. <form onsubmit="searchUser(); return false">
26. <input type="text" class="search-bar" id="search\_bar">
27. <!-- <input type="submit" value="Search" class=``> -->
28. <button>
29. <lord-icon src="https://cdn.lordicon.com/osbjlbsb.json" trigger="hover"
30. colors="outline:#121331,secondary:#b26836,secondary2:#4bb3fd,quaternary:#ebe6ef"
31. style="width:75px;height:75px">
32. </lord-icon>
33. </button>
34. </form>
35. </div>
36. </div>
37. <div class="section user-details" id="user\_detail">
38. <h2 class="title">User Details on <i class="fa-brands fa-github color-purple"></i></h2>
39. <div class="user-avatar">
40. <img id="user\_avatar\_url" class="avatar"></img>
41. </div>
42. <div class="user-login">
43. <div class="detail\_title"> User ID:</div>
44. <span id="user\_login"></span>
45. </div>
46. <div class="user-name">
47. <div class="detail\_title"> User Name:</div>
48. <span id="user\_name"></span>
49. </div>
50. <div class="user-github-profile">
51. <div class="detail\_title"> Github URL:</div>
52. <a id="user\_github\_html\_url" target="\_blank"></a>
53. </div>
54. <div class="user-public-repos">
55. <div class="detail\_title"> Public Repos:</div>
56. <span id="user\_public\_repos"></span>
57. </div>
58. </div>
60. <div id="error\_message" class="error-message scale-up-ver-bottom scale-up-hor-left">
61. </div>
62. <script>
63. const search\_form = document.getElementById('search\_form'); // linking search\_form from the html file to js file
64. const users\_list = document.getElementById('users\_list'); // linking user\_list from the html file to js file
65. const user\_detail = document.getElementById('user\_detail'); // linking user\_detail from the html file to js file
66. const user\_login = document.getElementById('user\_login');
67. const user\_name = document.getElementById('user\_name');
68. const user\_avatar = document.getElementById('user\_avatar\_url');
69. const user\_github = document.getElementById('user\_github\_html\_url');
70. const search\_bar = document.getElementById('search\_bar');
71. const search\_button = document.getElementById('search\_button');
72. const error\_message = document.getElementById('error\_message');
73. const user\_public\_repos = document.getElementById('user\_public\_repos');
74. window.addEventListener('load', () => {
75. search\_bar.value = '';
76. });
77. // user\_detail.style.display = 'none';
78. error\_message.style.display = 'none';
79. // base url for github api
80. const base\_url = 'https://api.github.com/users';
81. // search the user based in the input in search bar
82. function searchUser() {
83. const search\_value = search\_bar.value;
84. if (search\_value.trim() !== '') {
85. axios.get(`${base\_url}/${search\_value}`)
86. .then((response) => {
87. const user = response.data;
88. user\_login.innerHTML = user.login;
89. user\_name.innerHTML = user.name == null ? 'Not Available' : user.name;
90. user\_avatar.src = user.avatar\_url;
91. user\_github.href = user.html\_url;
92. user\_github.innerHTML = user.html\_url;
93. user\_public\_repos.innerHTML = user.public\_repos;
94. })
95. .catch((error) => {
96. console.log(error);
97. pop\_error()
98. error\_message.innerHTML = "User not found or invalid username. Please try again!!!";
99. });
100. }
101. else {
102. pop\_error()
103. error\_message.innerHTML = "Please enter username";
104. }
105. }
106. // popup of error message and it closes after 3 seconds with a timeout counter
107. function pop\_error() {
108. error\_message.style.display = 'flex';
109. setTimeout(function () {
110. error\_message.style.display = 'none';
111. }, 3000);
112. }
114. </script>
115. </body>
116. </html>

## CSS Code:

<style>

    html, body, div, h1, h2, h3, p, ul, li {

    margin: 0;

    padding: 0;

    border: 0;

    font-family: Arial, sans-serif;

}

/\* Apply a background image and style the body \*/

body {

    background-image: url("https://images.pexels.com/photos/1103970/pexels-photo-1103970.jpeg?auto=compress&cs=tinysrgb&w=1260&h=750&dpr=2");

    background-repeat: no-repeat;

    background-size: cover;

    background-position: center;

    color: #ffffff;

    font-size: 16px;

    line-height: 1.6;

}

/\* Center content vertically and horizontally \*/

.container {

    display: flex;

    justify-content: center;

    align-items: center;

    min-height: 100vh;

}

/\* Style the user details box \*/

.user-details {

    background-color: rgba(0, 0, 0, 0.7);

    border-radius: 10px;

    padding: 20px;

    max-width: 400px;

    text-align: center;

    box-shadow: 0 0 10px rgba(0, 0, 0, 0.3);

}

/\* Style the title \*/

.title {

    font-family: 'Barriecito', cursive;

    font-size: 24px;

    font-weight: bold;

    color: #4ab3fc;

    margin-bottom: 20px;

}

/\* Style the avatar \*/

.avatar {

    width: 150px;

    height: 150px;

    border-radius: 50%;

    border: 2px solid #ffffff;

    transition: transform 0.3s ease-in-out;

}

.avatar:hover {

    transform: scale(1.1);

}

/\* Style the search form \*/

.search-form {

    background-color: rgba(0, 0, 0, 0.7);

    border-radius: 50px;

    padding: 20px;

    text-align: center;

    margin-top: 20px;

}

.search-bar {

    padding: 10px 20px;

    width: 100%;

    font-size: 18px;

    border: none;

    border-radius: 50px;

    background-color: #ffffff;

    color: #333333;

}

.search-bar:focus {

    outline: none;

}

.search-icon {

    width: 30px;

    height: 30px;

    margin-right: 10px;

}

/\* Style links \*/

a {

    color: #4ab3fc;

    text-decoration: none;

}

a:hover {

    text-decoration: underline;

}

</style>

# OUTPUT:



