

WEB_ICP4

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In Class Programming:

1. GitHub User Finder

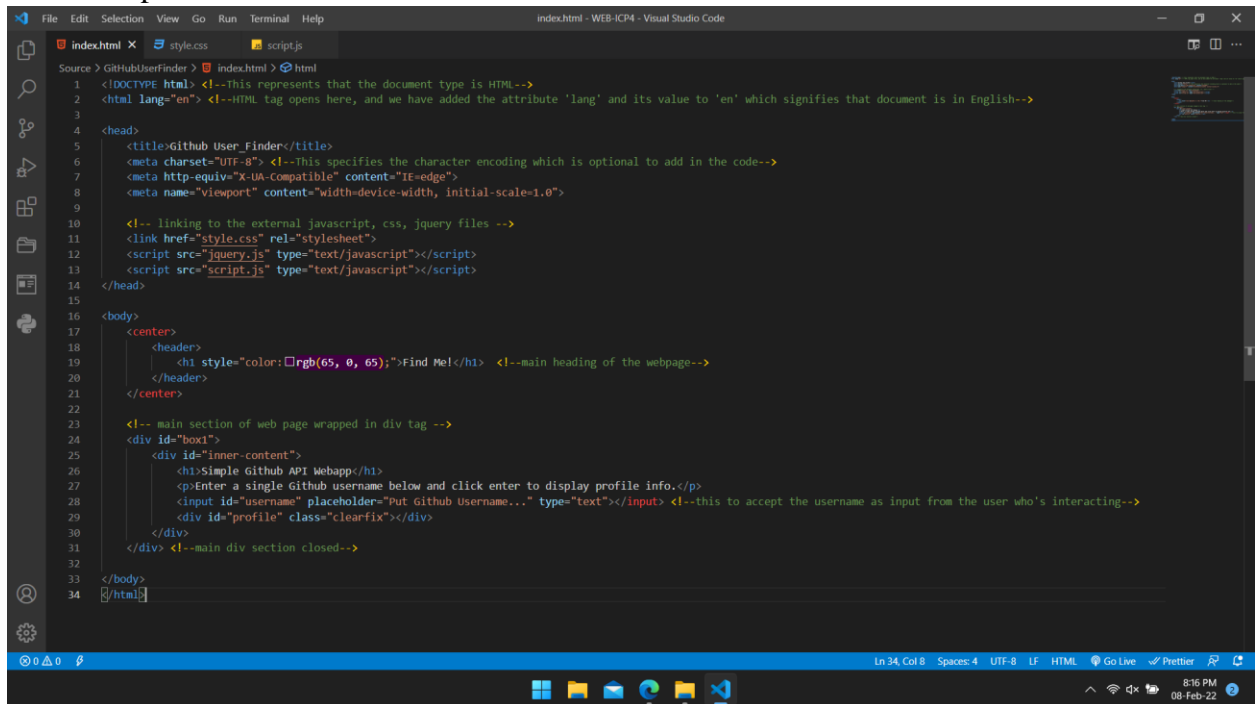
GitHub is a web-based interface and open source software that lets multiple people make separate changes to web pages at the same time. GitHub encourages teams to work together to build and edit their site content.

Here, we produced a web application which makes the call to GitHub API and to displays the display user's account details like name, user id, profile picture, user's GitHub link.

We designed application in such a way that it accepts the username as an input which is taken by input field coded , and by this, the details of that username has to be displayed.

HTML code:

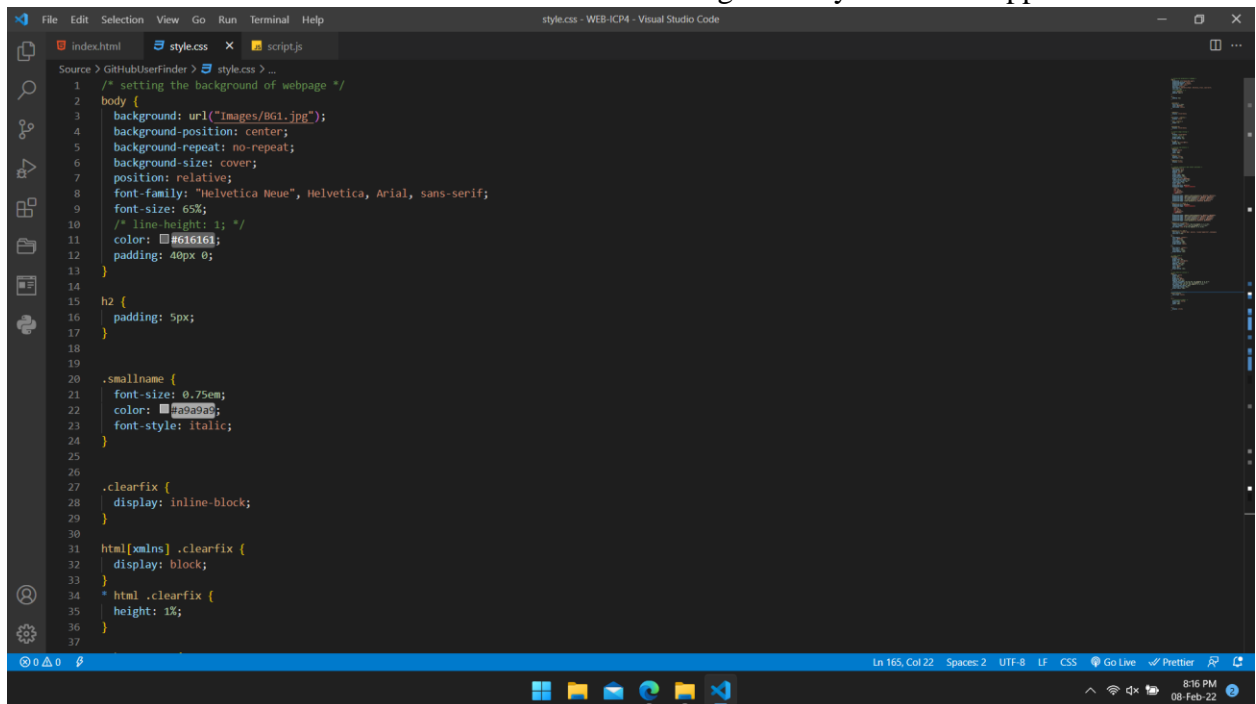
Below snaps shows the HTML code for the reference.



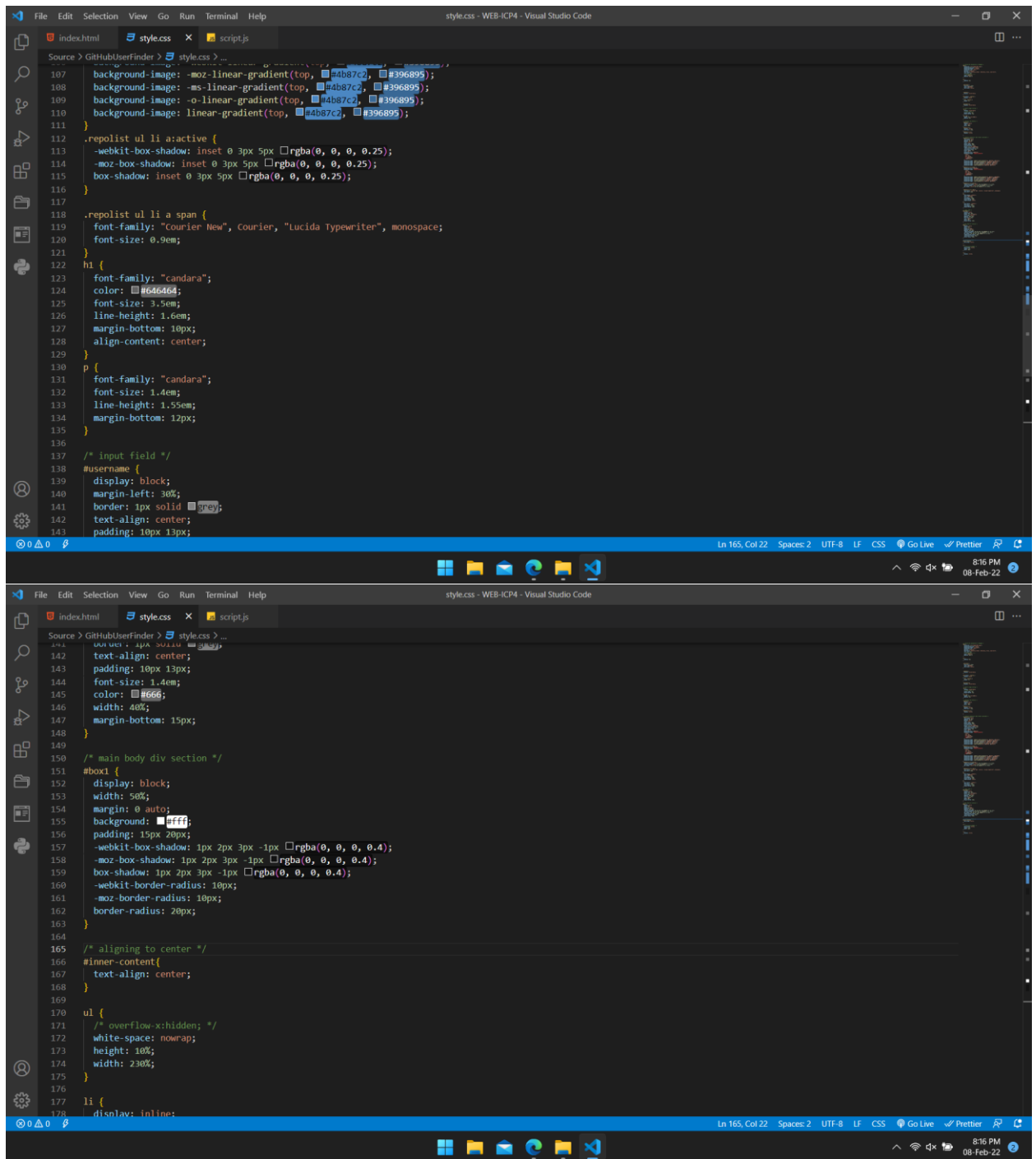
```
1 <!DOCTYPE html> <!--This represents that the document type is HTML-->
2 <html lang="en"> <!--HTML tag opens here, and we have added the attribute 'lang' and its value to 'en' which signifies that document is in English-->
3
4 <head>
5   <title>Github User_Finder</title>
6   <meta charset="UTF-8"> <!--This specifies the character encoding which is optional to add in the code-->
7   <meta http-equiv="X-UA-Compatible" content="IE=edge">
8   <meta name="viewport" content="width=device-width, initial-scale=1.0">
9
10  <!-- linking to the external javascript, css, jquery files -->
11  <link href="style.css" rel="stylesheet">
12  <script src="jquery.js" type="text/javascript"></script>
13  <script src="script.js" type="text/javascript"></script>
14 </head>
15
16 <body>
17   <center>
18     <header>
19       <h1 style="color: rgb(65, 0, 65);">Find Me!</h1> <!--main heading of the webpage-->
20     </header>
21   </center>
22
23   <!-- main section of web page wrapped in div tag -->
24   <div id="box1">
25     <div id="inner-content">
26       <h2>Simple Github API Webapps</h2>
27       <p>Enter a single Github username below and click enter to display profile info.</p>
28       <input id="username" placeholder="Put Github username..." type="text"></input> <!--this to accept the username as input from the user who's interacting-->
29       <div id="profile" class="clearfix"></div>
30     </div>
31   </div> <!--main div section closed-->
32
33 </body>
34 </html>
```

CSS code:

Below the screenshots of css code which is used to design and style our web application.



```
1 /* setting the background of webpage */
2 body {
3   background: url("images/BG1.jpg");
4   background-position: center;
5   background-repeat: no-repeat;
6   background-size: cover;
7   position: relative;
8   font-family: "Helvetica Neue", Helvetica, Arial, sans-serif;
9   font-size: 65%;
10  /* line-height: 1; */
11  color: #616161;
12  padding: 40px 0;
13 }
14
15 h2 {
16   padding: 5px;
17 }
18
19
20 .smallname {
21   font-size: 0.75em;
22   color: #a9a9a9;
23   font-style: italic;
24 }
25
26
27 .clearfix {
28   display: inline-block;
29 }
30
31 html[xmlns] .clearfix {
32   display: block;
33 }
34
35 * html .clearfix {
36   height: 1%;
37 }
```



```
File Edit Selection View Go Run Terminal Help style.css - WEB-ICP4 - Visual Studio Code

Source > GitHubUserFinder > style.css > ...
index.html style.css x scripts.js

39     display: inline-block;
40 }
41
42 /* profile image styling */
43 .avi {
44     display: inline-block;
45     /* float: left; */
46     margin-right: 7px;
47     margin-bottom: 7px;
48 }
49 .avi img {
50     border: 1px solid #ccc;
51     padding: 3px;
52 }
53
54 /* styling repo details */
55 .repolist {
56     display: block;
57     clear: both;
58     width: 100%;
59 }
60 .repolist ul {
61     display: inline;
62     font-size: 1.2em;
63 }
64 .repolist ul li {
65     display: inline;
66 }
67 }
68
69 /* creating responsive repo folders available */
70 .repolist ul li a {
71     font-weight: bold;
72     padding: 6px 9px;
73     display: block;
74     float: left;
75     margin-right: 10px;
```

```
File Edit Selection View Go Run Terminal Help style.css - WEB-ICP4 - Visual Studio Code

Source > GitHubUserFinder > style.css > ...
index.html style.css x scripts.js

74 float: left;
75 margin-right: 10px;
76 margin-bottom: 10px;
77 text-decoration: none;
78 border: 1px solid #3673af;
79 -webkit-border-radius: 3px;
80 -moz-border-radius: 3px;
81 border-radius: 3px;
82 color: #fff;
83 background-color: #3673af;
84 background-image: -webkit-gradient(
85     linear,
86     left top,
87     left bottom,
88     from(#5597d8),
89     to(#3673af)
90 );
91 background-image: -webkit-linear-gradient(top, #5597d8, #3673af);
92 background-image: -moz-linear-gradient(top, #5597d8, #3673af);
93 background-image: -ms-linear-gradient(top, #5597d8, #3673af);
94 background-image: -o-linear-gradient(top, #5597d8, #3673af);
95 background-image: linear-gradient(top, #5597d8, #3673af);
96 }
97 .repolist ul li a:hover {
98     background-color: #396895;
99     background-image: -webkit-gradient(
100         linear,
101         left top,
102         left bottom,
103         from(#4b87c2),
104         to(#396895)
105     );
106     background-image: -webkit-linear-gradient(top, #4b87c2, #396895);
107     background-image: -moz-linear-gradient(top, #4b87c2, #396895);
108     background-image: -ms-linear-gradient(top, #4b87c2, #396895);
109     background-image: -o-linear-gradient(top, #4b87c2, #396895);
110     background-image: linear-gradient(top, #4b87c2, #396895);
111 }
```

JAVASCRIPT code:

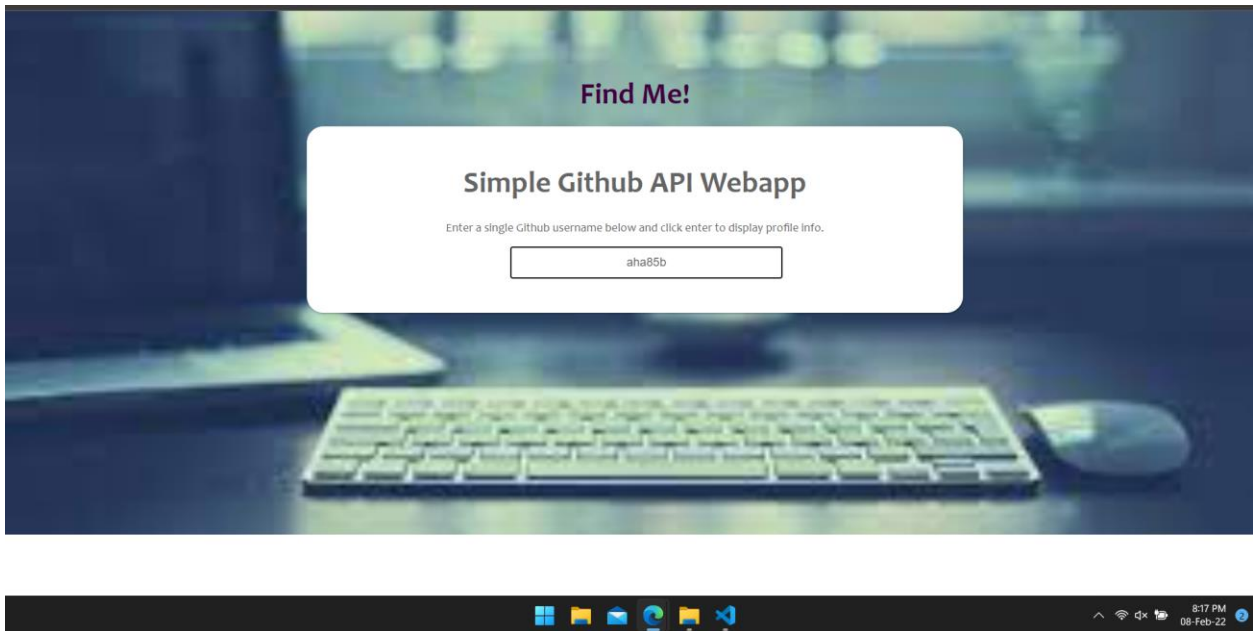
Below are the snippets of our js code which is commented as well for the reference.

This was coded to make our web application or webpage interactive and responsive to the user.

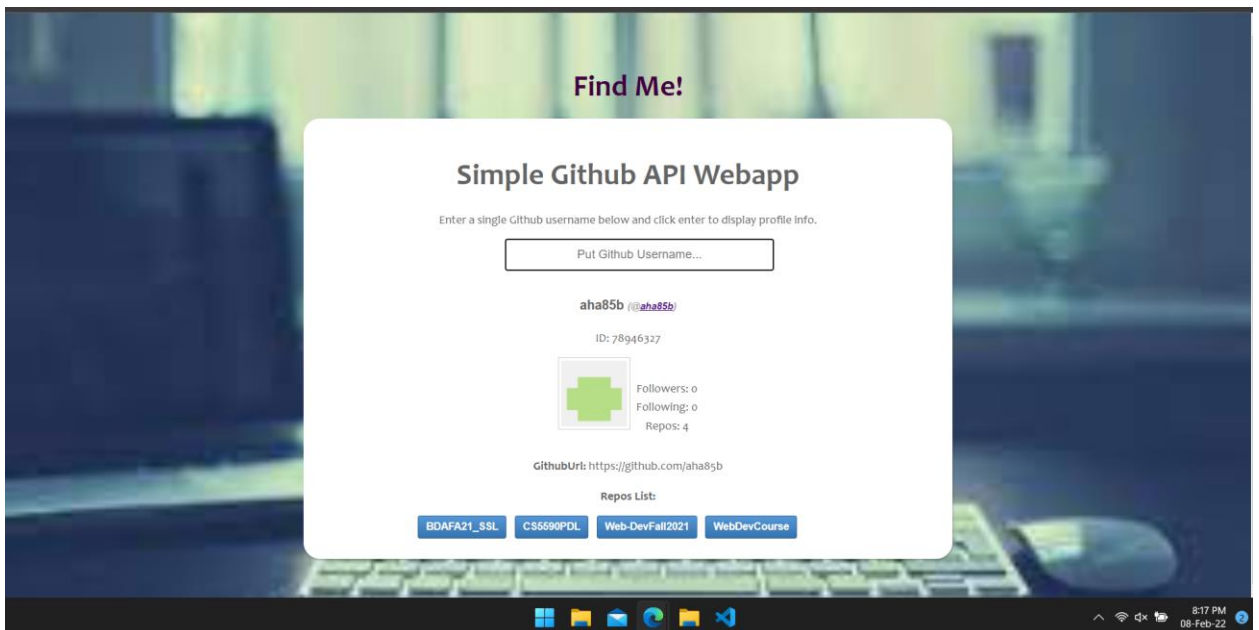
```
Source > GitHubUserFinder > scripts.js > showUser
1 function getGithubInfo(user) {
2   // created two variables to get user_info
3   var username = user;
4   var requiri = 'https://api.github.com/users/' + username;
5   var repouri = 'https://api.github.com/users/' + username + '/repos';
6   $.ajax({
7     type: "GET",
8     url: requiri,
9     dataType: "html",
10    success: function (data) {
11      // Run the code here that needs to access the data returned
12      console.log(data);
13      showUser(JSON.parse(data), repouri);
14    },
15    error: function () {
16      noSuchUser(username);
17    }
18  });
19 }
20
21 // displaying user info
22 function showUser(user, repouri) {
23   // debugger;
24   var fullname = user.name;
25   var id = user.id;
26   var username = user.login;
27   var aviurl = user.avatar_url;
28   var profileurl = user.html_url;
29   var followersnum = user.followers;
30   var followingnum = user.following;
31   var reposnum = user.public_repos;
32
33   if (fullname == undefined) { fullname = username; }
34   // displaying user's profile details
35   var outhtml = '<h2>' + fullname + ' <span class="smallname">@<a href="' + profileurl + '" target="_blank">' + username + '</a></span></h2>';
36   outhtml = outhtml + '<p class="idname"> ID: ' + id + '</p>';
37   outhtml = outhtml + '<div class="ghcontent"><div class="avi"><a href="' + profileurl + '" target=" _blank"> GitHubUserFinder > scripts.js > showUser
39   outhtml = outhtml + '<div class="repolist clearfix">';
40   outhtml = outhtml + '<p class="idname"> <strong>GithubUrl: </strong>' + profileurl + '</p>';
41
42   // using json file to get output page content
43   var repositories;
44   $.getJSON(repouri, function (json) {
45     repositories = json;
46     outputPageContent();
47   });
48   function outputPageContent() {
49     if (repositories.length == 0) { outhtml = outhtml + '<p>No repos</p></div>'; }
50     else {
51       outhtml = outhtml + '<p><strong>Repos List:</strong></p> <ul>';
52       $.each(repositories, function (index) {
53         outhtml = outhtml + '<li><a href="' + repositories[index].html_url + '" target=" _blank">' + repositories[index].name + '</a></li>';
54       });
55       outhtml = outhtml + '</ul></div>';
56     }
57
58     $('#profile').html(outhtml);
59
60     //set the contents of the h2 and the two div elements in the div '#profile' with the user content
61   }
62
63   function noSuchUser(username) {
64     alert('No Username Found');
65     //set the elements such that a suitable message is displayed
66   }
67
68   $(document).ready(function () {
69     $(document).on('keypress', '#username', function (e) {
70       //check if the enter(i.e return) key is pressed
71       if (e.which == 13) {
72         //get what the user enters
73         username = $(this).val();
74         //reset the text typed in the input
75         $(this).val('');
```


OUTPUT's

Here user enters the particular username as per the choice.



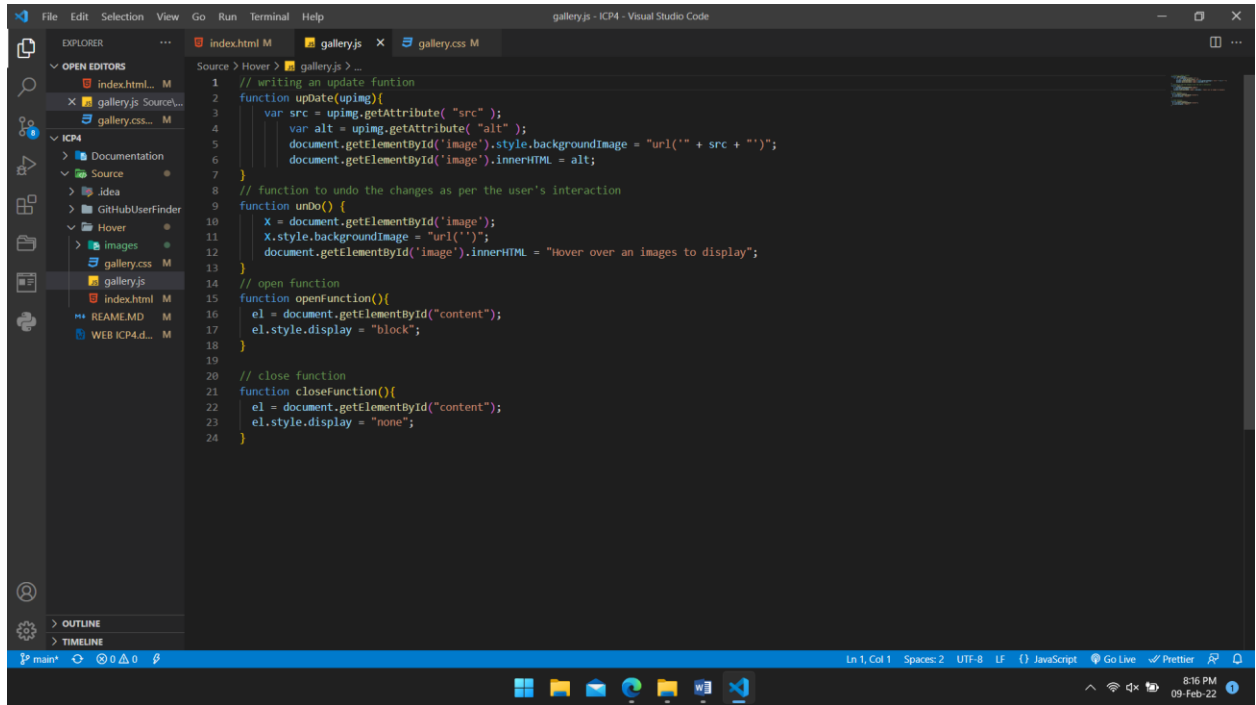
Details are displayed as we designed.



2. Hover

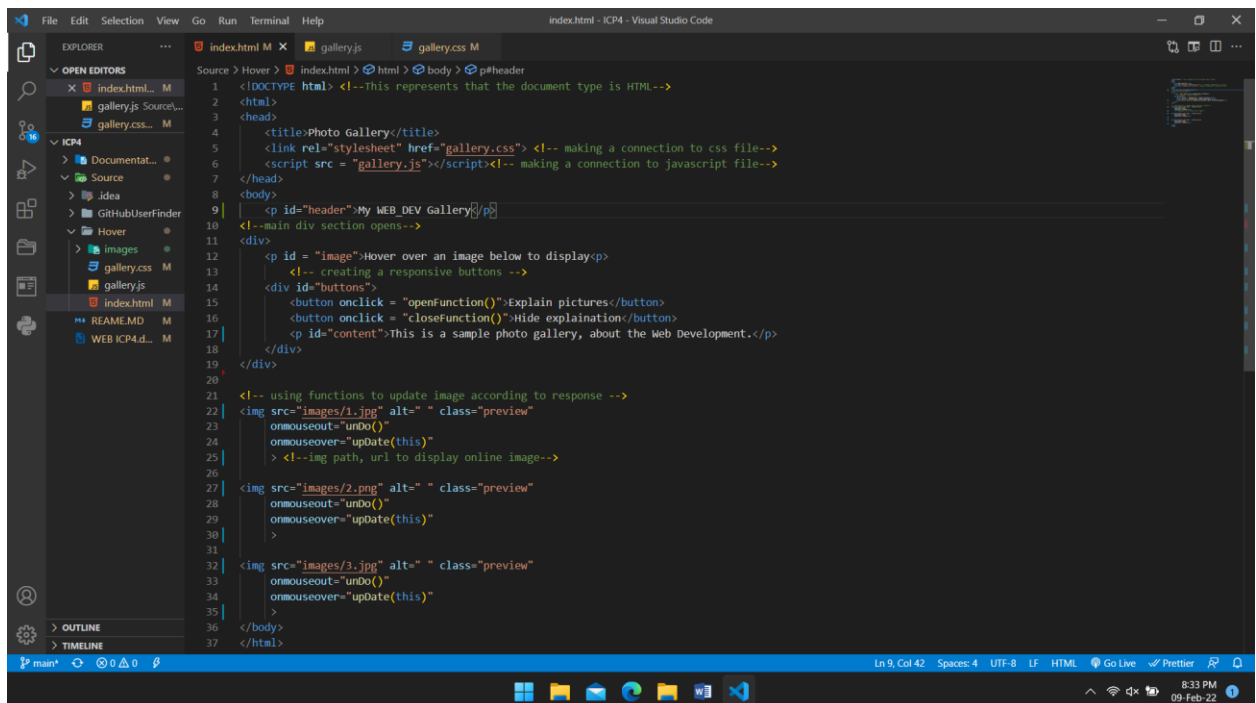
This is about the simple web application of photo gallery of web development.

JAVASCRIPT code:



```
1 // writing an update function
2 function upDate(upimg){
3     var src = upimg.getAttribute( "src" );
4     var alt = upimg.getAttribute( "alt" );
5     document.getElementById( "image" ).style.backgroundColor = "url('" + src + "')";
6     document.getElementById( "image" ).innerHTML = alt;
7 }
8 // function to undo the changes as per the user's interaction
9 function undo() {
10     x = document.getElementById( "image" );
11     x.style.backgroundColor = "url('')";
12     document.getElementById( "image" ).innerHTML = "Hover over an images to display";
13 }
14 // open function
15 function openFunction(){
16     el = document.getElementById( "content" );
17     el.style.display = "block";
18 }
19
20 // close function
21 function closeFunction(){
22     el = document.getElementById( "content" );
23     el.style.display = "none";
24 }
```

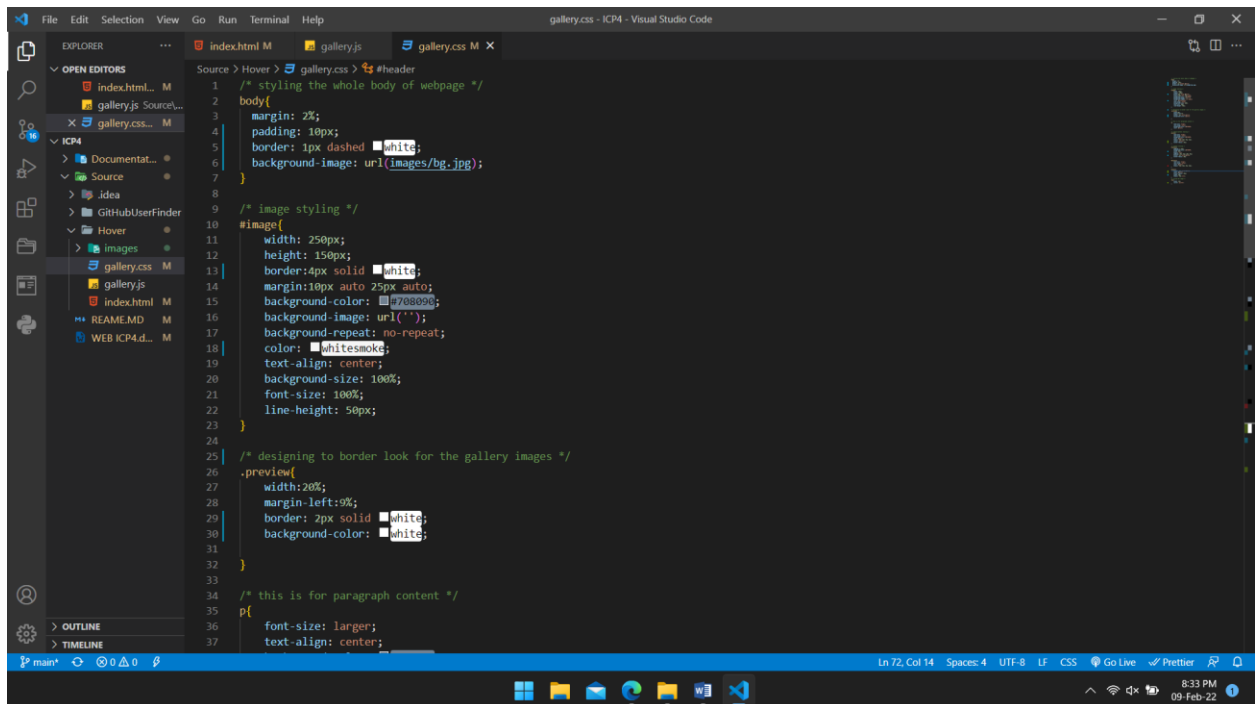
HTML code:



```
1 <!DOCTYPE html> <!-- This represents that the document type is HTML -->
2 <html>
3 <head>
4     <title>Photo Gallery</title>
5     <link rel="stylesheet" href="gallery.css"> <!-- making a connection to css file -->
6     <script src = "gallery.js"></script><!-- making a connection to javascript file -->
7 </head>
8 <body>
9     <p id="header">My WEB_DEV Gallery</p>
10 <!-- main div section opens -->
11 <div>
12     <p id = "image">Hover over an image below to display<p>
13     <!-- creating a responsive buttons -->
14     <div id="buttons">
15         <button onclick = "openFunction()">Explain pictures</button>
16         <button onclick = "closeFunction()">Hide explanation</button>
17     </div>
18     <p id="content">This is a sample photo gallery, about the Web Development.</p>
19 </div>
20
21 <!-- using functions to update image according to response -->
22  <!-- img path, url to display online image -->
26
27 
31
32 
36 </body>
37 </html>
```

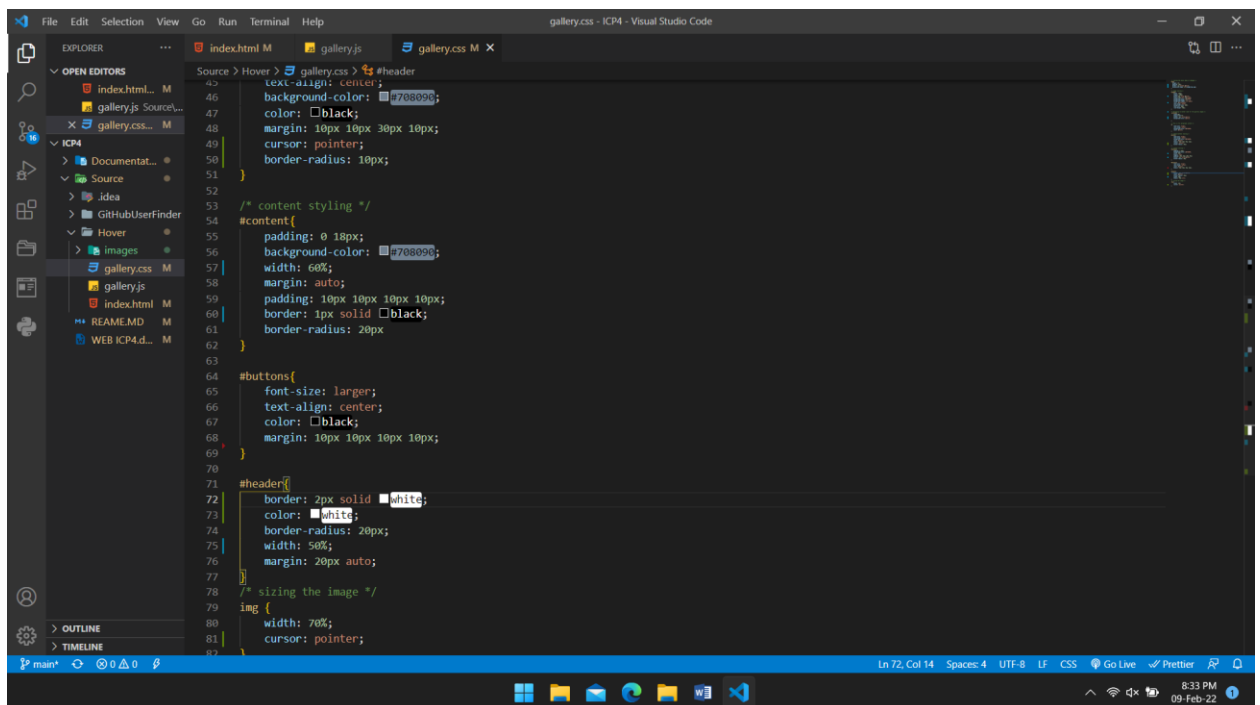

CSS code:

Below is code that is styling our photo gallery.



The screenshot shows the Visual Studio Code editor with the 'gallery.css' file open. The Explorer sidebar on the left shows the project structure with files like 'index.html', 'gallery.js', and 'gallery.css'. The main editor area displays the following CSS code:

```
1  /* styling the whole body of webpage */
2  body{
3      margin: 2%;
4      padding: 10px;
5      border: 1px dashed white;
6      background-image: url(images/bg.jpg);
7  }
8
9  /* image styling */
10 #image{
11     width: 250px;
12     height: 150px;
13     border: 4px solid white;
14     margin: 10px auto 25px auto;
15     background-color: #708090;
16     background-image: url("");
17     background-repeat: no-repeat;
18     color: whitesmoke;
19     text-align: center;
20     background-size: 100%;
21     font-size: 100%;
22     line-height: 50px;
23 }
24
25 /* designing to border look for the gallery images */
26 .preview{
27     width: 20%;
28     margin-left: 0%;
29     border: 2px solid white;
30     background-color: white;
31 }
32
33 /* this is for paragraph content */
34 p{
35     font-size: larger;
36     text-align: center;
37 }
```



The screenshot shows the Visual Studio Code editor with the 'gallery.css' file open, displaying the continuation of the CSS code:

```
45 text-align: center;
46 background-color: #708090;
47 color: black;
48 margin: 10px 10px 30px 10px;
49 cursor: pointer;
50 border-radius: 10px;
51 }
52
53 /* content styling */
54 #content{
55     padding: 0 18px;
56     background-color: #708090;
57     width: 60%;
58     margin: auto;
59     padding: 10px 10px 10px 10px;
60     border: 1px solid black;
61     border-radius: 20px;
62 }
63
64 #buttons{
65     font-size: larger;
66     text-align: center;
67     color: black;
68     margin: 10px 10px 10px 10px;
69 }
70
71 #header{
72     border: 2px solid white;
73     color: white;
74     border-radius: 20px;
75     width: 50%;
76     margin: 20px auto;
77 }
78
79 /* sizing the image */
80 img {
81     width: 70%;
82     cursor: pointer;
83 }
```

OUTPUT's

Showed the two buttons, explain and hide explanation of photo gallery.

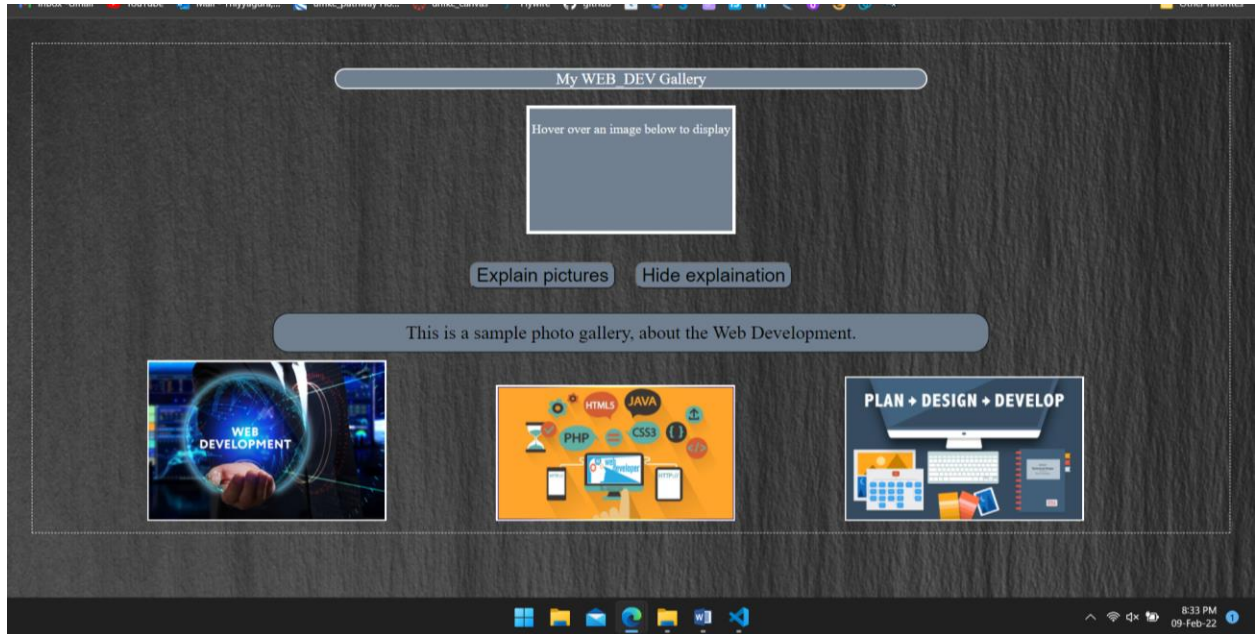


Image displayed when we hover the on particular.

