Web_ICP4: JavaScript, jQuery
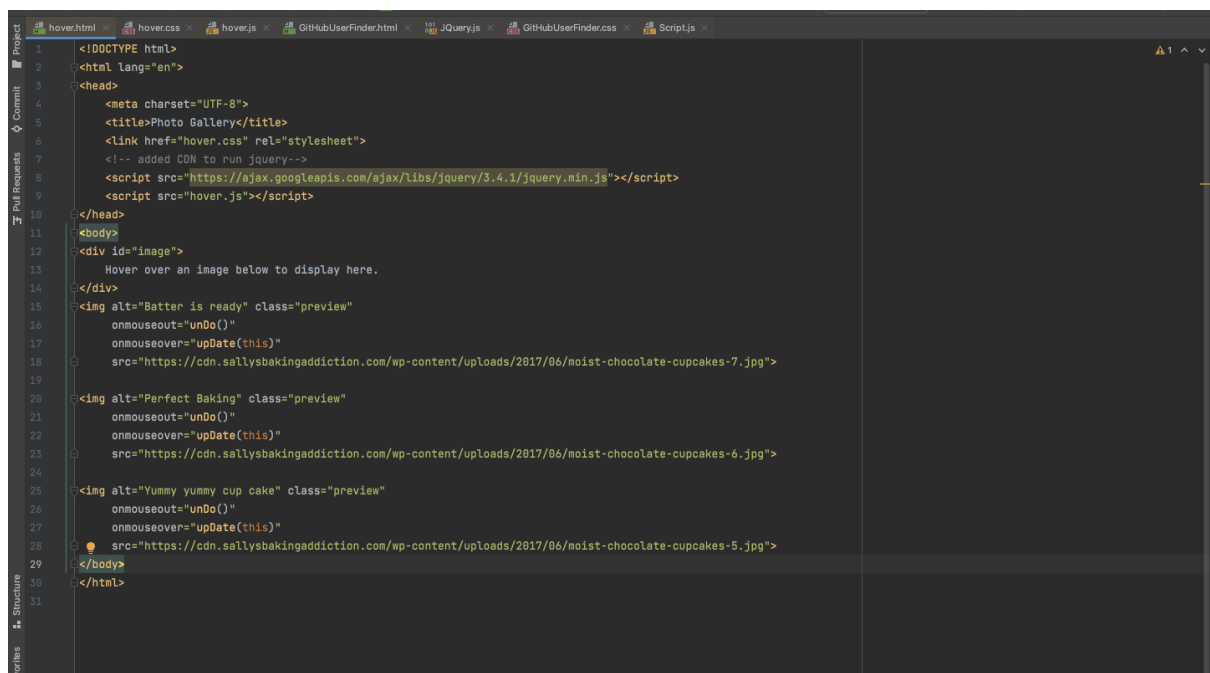
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Goal:

The main objective of this tutorial is to understand the object oriented JavaScript using jQuery and use of GitHub API with jQuery.

TASK 1:

Hover image

The main part of this task is when a mouse is hovered on an image, then it should be appear on the required box along with the related text. The required JavaScript is as follow below.

The below is the screenshot of the hover.html file that was already given in the assignment and to that I have linked my CSS and JavaScript file below we can find in Screenshot.


This below screenshot is the hover.css file that was linked to the hover.html file and in this CSS file, I have used styling tags to style my page and to modify their look.
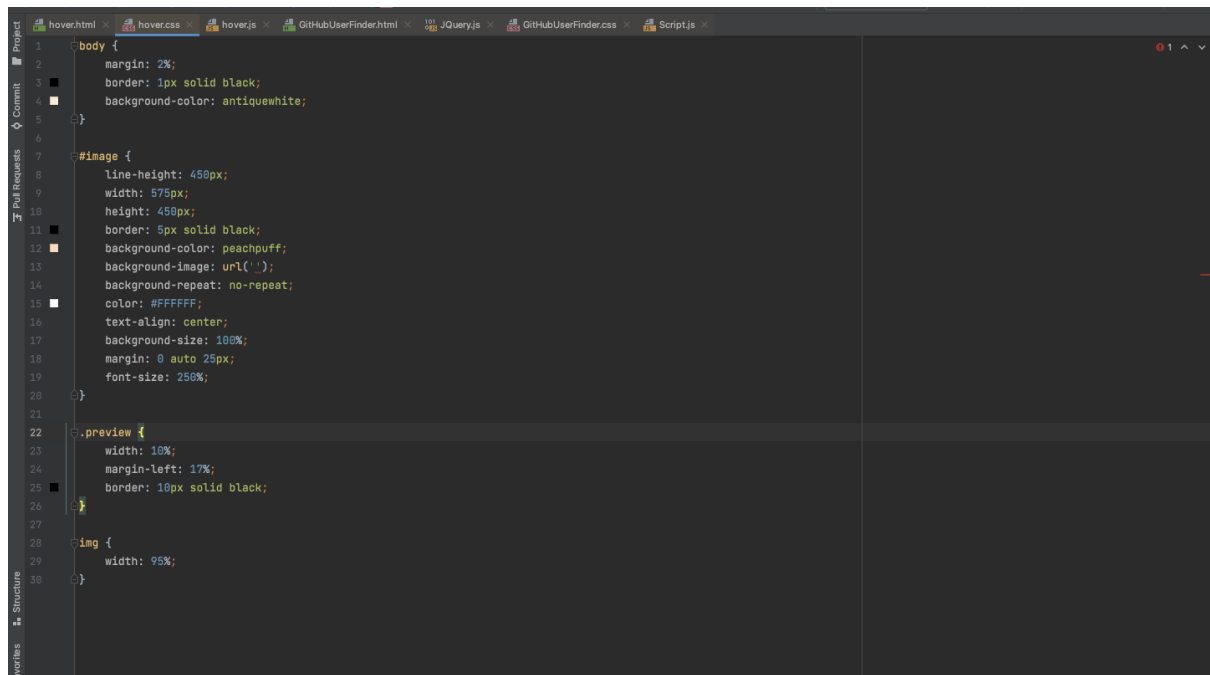
The below is the screenshot of the JavaScript that I have set to hover when the mouse is hovered and to should update functionality generally tends to image that fits in the box as shown in output below.

Below I have used the upDate and unDo functions update function will update the user information and the undo function will restore the original image
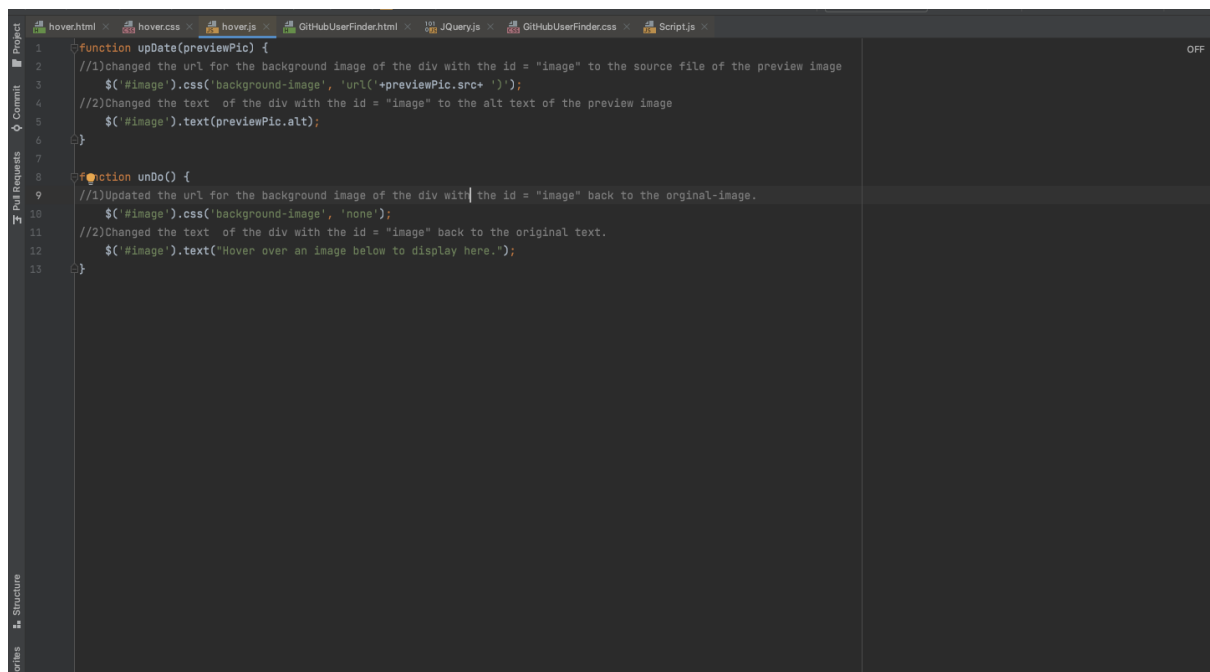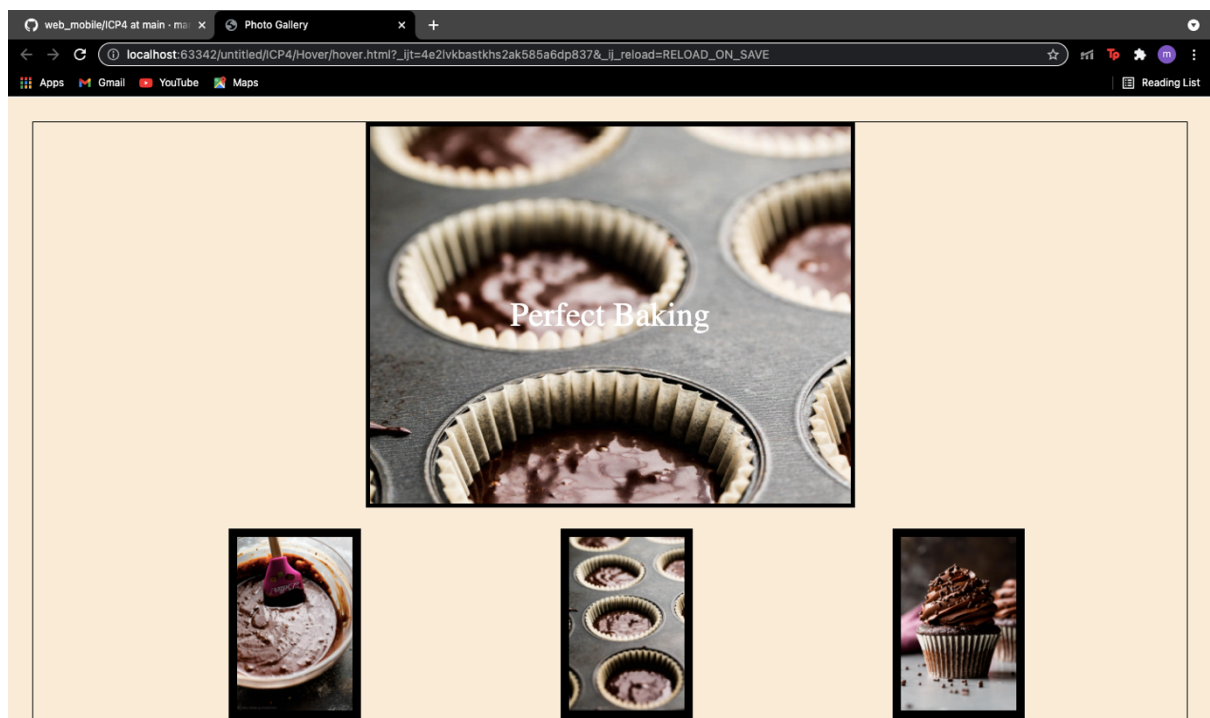

OUTPUT :

1.The below image shows the output when the mouse isn't hovered any image. The output below shown is the initial image of outcome
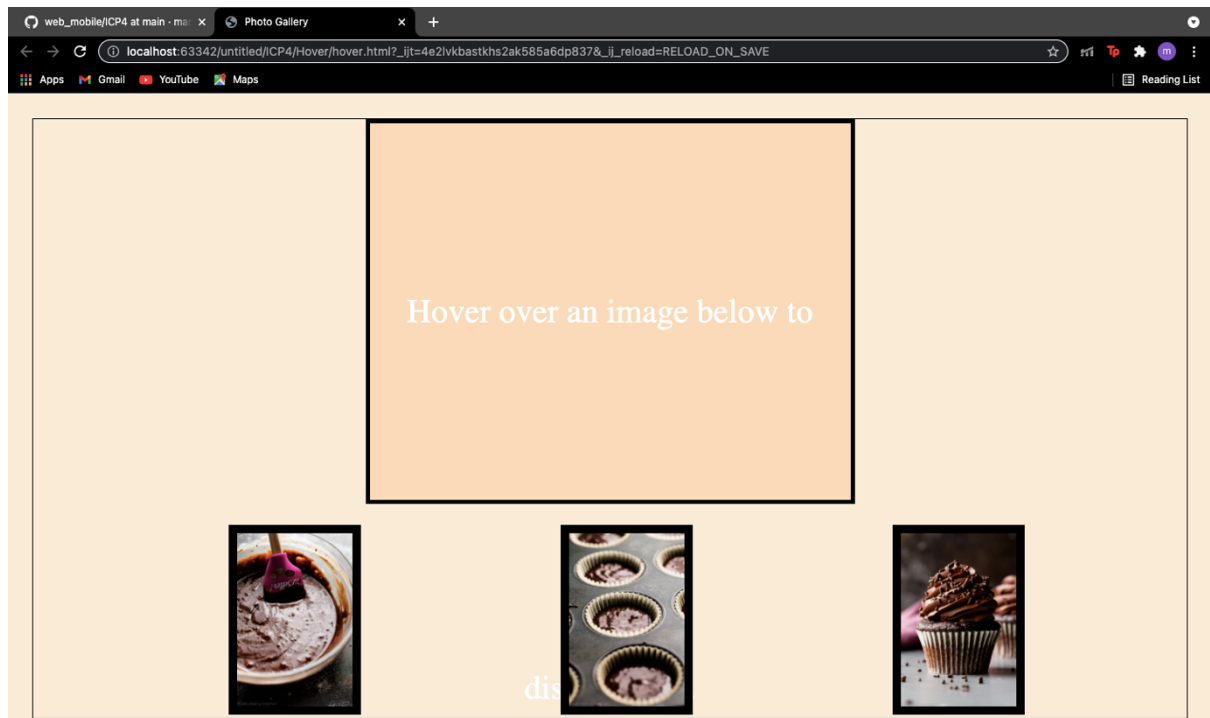
2.The below screenshot shows the output of my program that shows the hover when the mouse is on any image and also that will provide the text for each image.
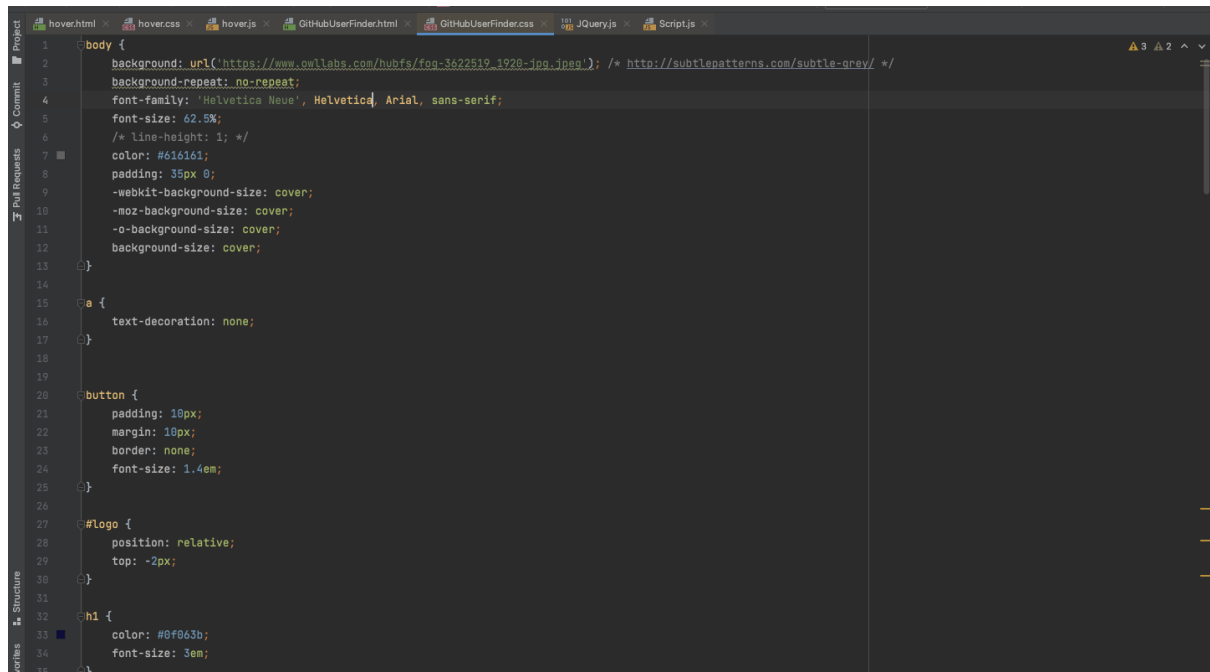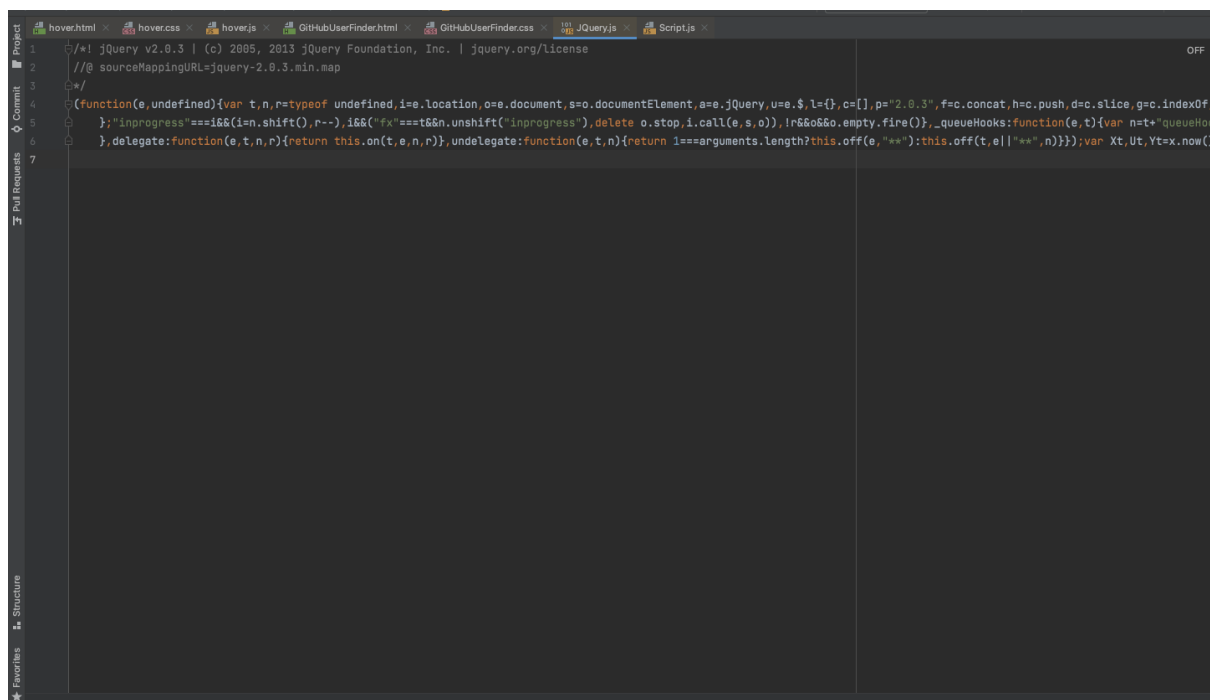

Task 2:

Github User Finder

As a part of this task, when the user enters a GitHub username, it should results in the login name, login ID, node ID, GitHub url, total count of repositories using the GitHub API

1.Here in below screenshot is the GitHubUserFinder.html file that was already given in the assignment documentsthen I have added the javascript files and css files to this html file.

2.Below is the JavaScript file that was already given.

Below is screenshot of the JavaScript that I was programmed for display the data of the use as output in below. Here I have used functions like if, else if, show User, noshushfunction.

```javascript
function getGithubInfo(user) {
    console.log(user);
    //1. Create an instance of XMLHttpRequest class and send a GET request using it. The function should finally return the object(it now contains the response!)
    var xhttp =new XMLHttpRequest();
    var url = "https://api.github.com/users/"+user;

    xhttp.open( method: 'GET',url);

    xhttp.onload = function () {
        //if the response is successful, it will show the user's details
        if (xhttp.status == 200) {
            console.log(xhttp);
            showUser(JSON.parse(xhttp.responseText));
            //else display error message
        } else if(xhttp.status==404) {
            noSuchUser(user);
        }
    };
    xhttp.send()

}


function showUser(user) {

    //2. setting the contents of the h2 and the two div elements in the div '#profile' with the user content
    console.log(user);
// setting the html elements in page using jQuery
    $("#displaytext").text(user.login);
    $(".avatar").html("<img height='200' width='200' src='"+ user.avatar_url+"'/>");
    var link = "<a target='_blank' href='"+user.html_url+"'> Git Hub URL  </a>";
    $(".information").html("<label style='font-size: x-large'><u><strong>User Information</strong></u></label>" +
        "<br/><br/><label style='font-size: larger'>Login Name : </label>"+ user.login
        +"<br/><label style='font-size: larger'> Login ID : </label>"+ user.id
        +"<br/><label style='font-size: larger'> Node ID : </label>"+ user.node_id
        +"<br/> <label style='font-size: larger'>GitHub URL : </label>"+link
```

```javascript
        +"<br/> <label style='font-size: larger'>GitHub URL : </label>"+link
        +"<br/> <label style='font-size: larger'>GitHub Repositories Of the User : </label>"+ user.public_repos);

    $("#profile").show();

}


function noSuchUser(username) {
    //3. set the elements such that a suitable message is displayed
    $("#displaytext").text(" username " +username + "does not exists");
    console.log("no such user");
    // setting the elements in html page to blank
    $(".avatar").text(" username " +username + " does not exists ");

    $(".information").html('');
    $("#profile").show();

}


$(document).ready(function(){

    $(document).on('keypress', '#username', function(e){
        $("#profile").hide();
        //check if the enter(or return) key is pressed
        if (e.which == 13) {
            //get what the user enters
            username = $(this).val();
            //clear the text typed in the input
            $(this).val("");
            //get the user's information and store the response
            getGithubInfo(username);
        }
    })
});
```

OUTPUT :

1.Below is the screenshot of the initial output that shows my starting interface like find me then when we enter the user name the data will be show as below in 2
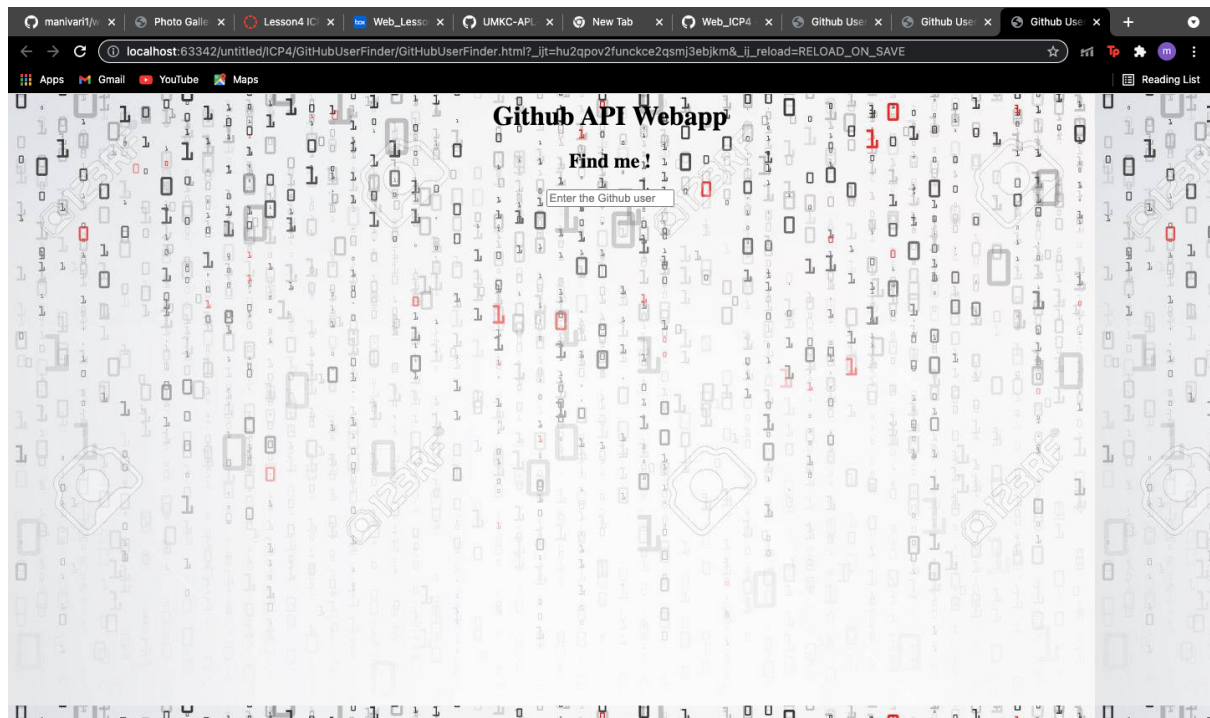
2.Here in the output we can see that when I typed my username then it should results in the login name, login ID, node ID, GitHub url, total count of repositories using the GitHub API Was displayed as wanted