

WEB-MOBILE-COMPUTING

LAB ASSIGNMENT-2

By,

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Overview:

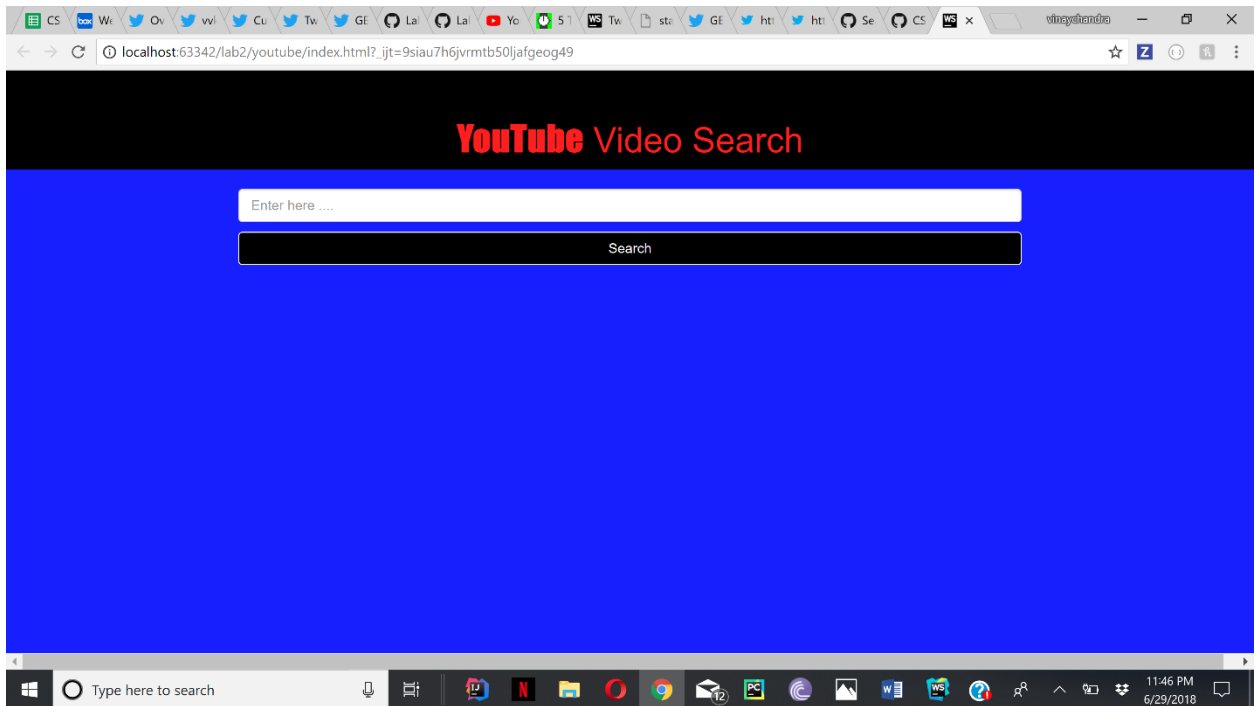
The purpose of this assignment can be explained in 3 parts

- 1) Youtube search page which shows the related videos for the search keyword using the youtube API
- 2) Tic-Tac-Toe game using javascript which is interactive and can be played by two players
- 3) Using twitter API to get the friends list of the searched person.

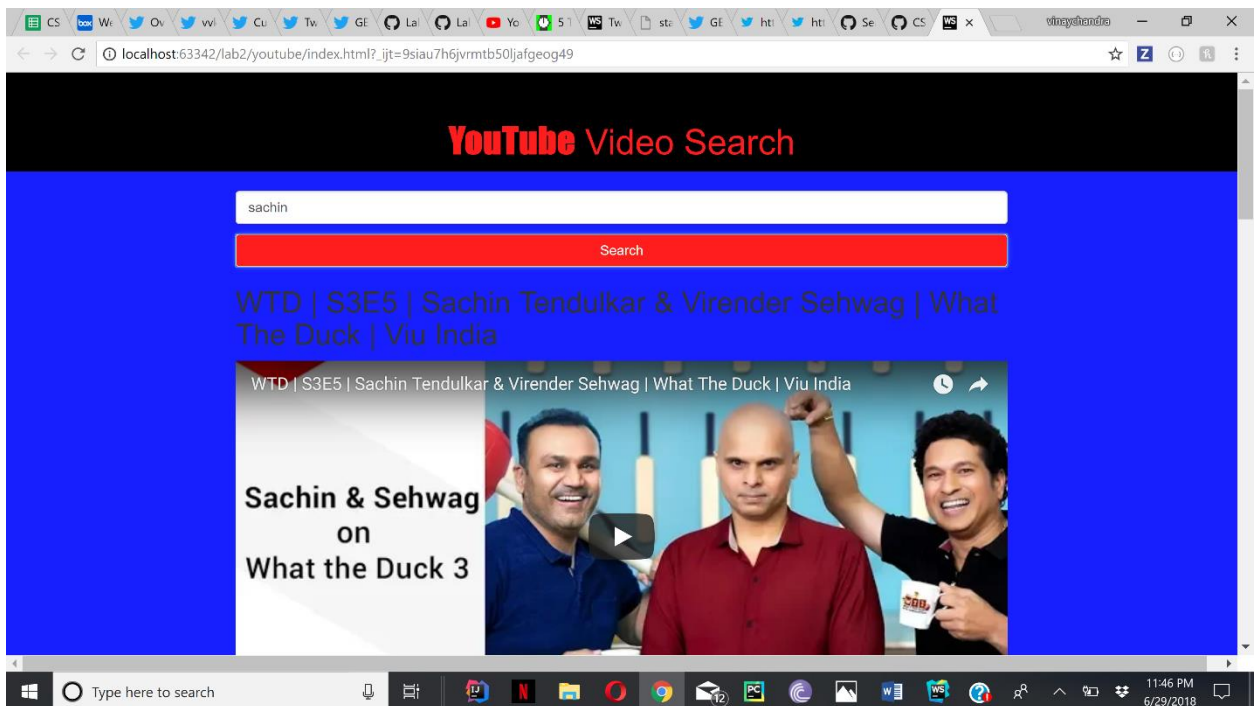
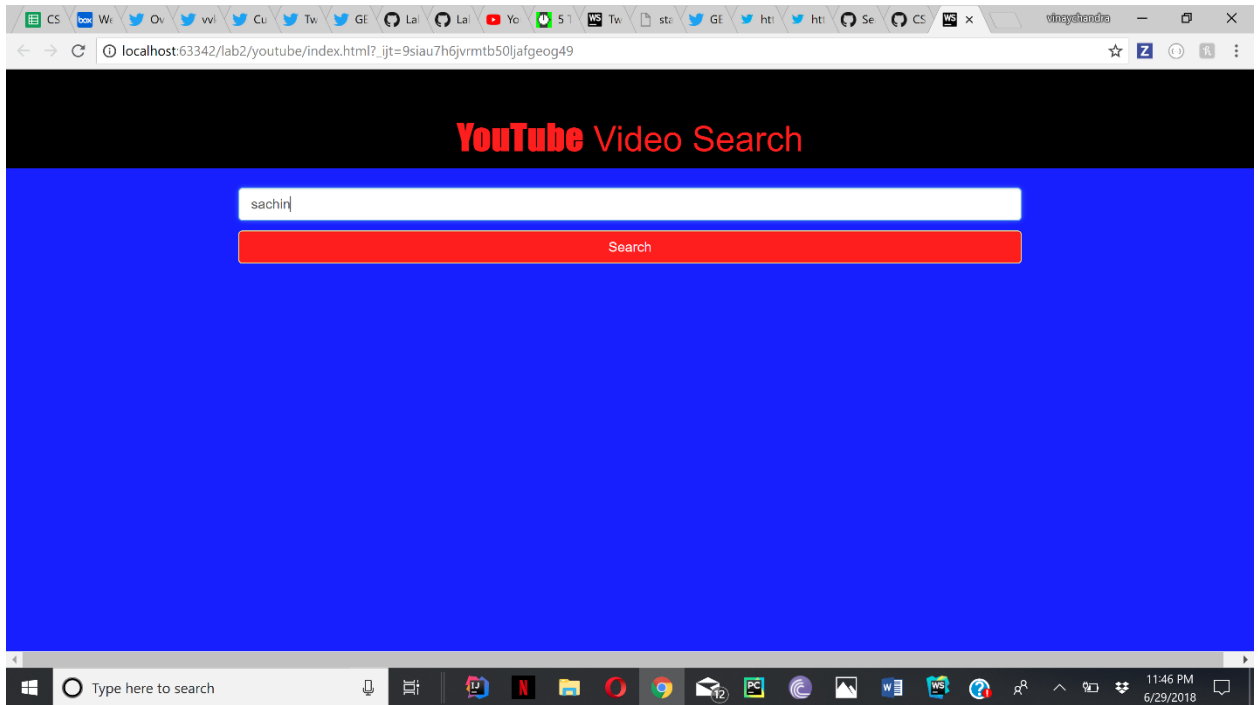
PART-I

In this part we use the youtube API to get the search results of the appropriated keyword searched in the search bar.

The home for the youtube serach page looks as below:



And the search works as below:



Code for the youtube API:

The image shows a Visual Studio Code editor window. The top menu bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, and Help. The title bar shows the file path: lab2 [C:\Users\vrvina\OneDrive\Desktop\lab2] - WebStorm. The left sidebar has a 'Project' view showing the file structure: lab2 (folder), youtube (folder), js (folder), and app.js (file). Below this is a 'Structure' view showing the same hierarchy. The main editor area displays the content of app.js, which is a JavaScript file using jQuery. The code defines a function to fetch video data from the YouTube API, processes the response, and displays it in a list. The code is as follows:

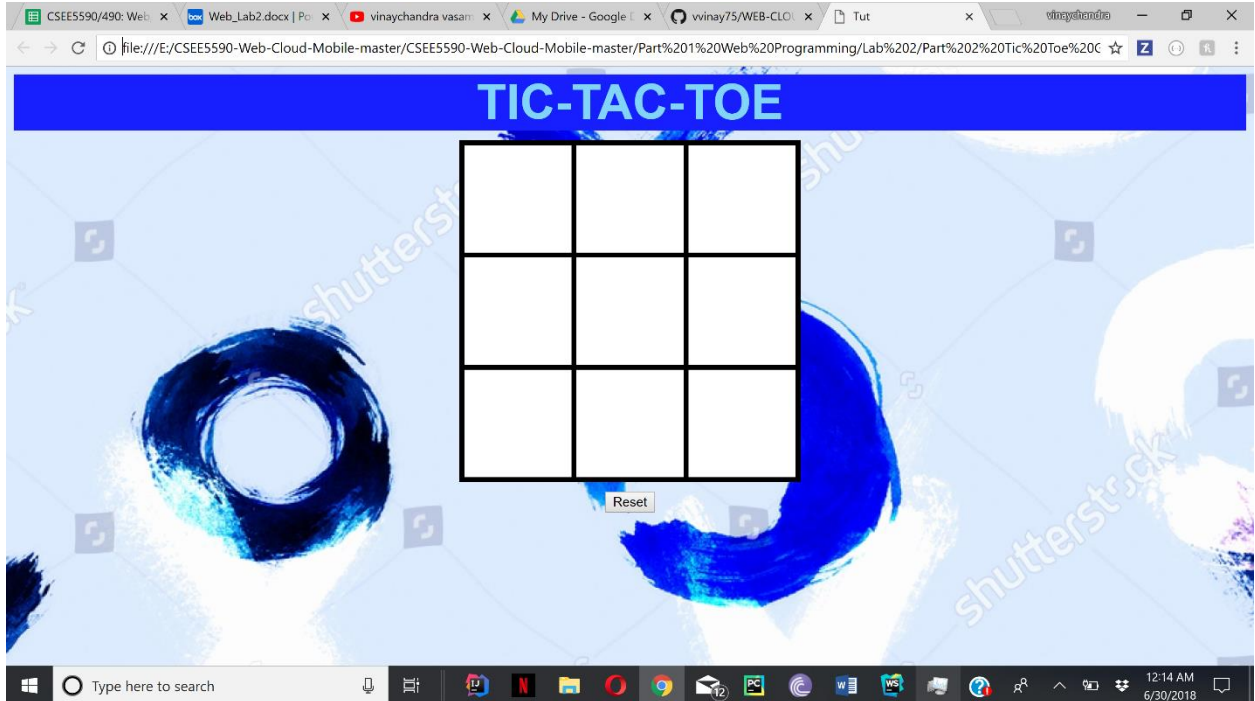
```
21         order: "relevance",
22         publishedAfter: "2010-01-01T00:00:00Z"
23     });
24     // execute the request
25     req.execute(function (response) {
26         var results = response.result;
27         $("#results").html("");
28         $.each(results.items, function (index, item) {
29             $.get("tpl/item.html", function (data) {
30                 $("#results").append(tpl.wavesome(data, [{"title": item.snippet.title, "videoId": item.id.videoId}]));
31             });
32         });
33         resetVideoHeight();
34     });
35 });
36
37 $(window).on("resize", resetVideoHeight);
38
39
40 function resetVideoHeight() {
41     $(".video").css("height", $(".results").width() * 9 / 16);
42 }
43
44 function initialize() {
45     gapi.client.setApiKey("AIzaSyAFwYDAGyPW_ZQkN73vFCgfFAFw1INXc");
46     gapi.client.load("youtube", "v3", function () {
47         // yt api is ready
48     });
49 }
50
51 tpl.wavesome()
```

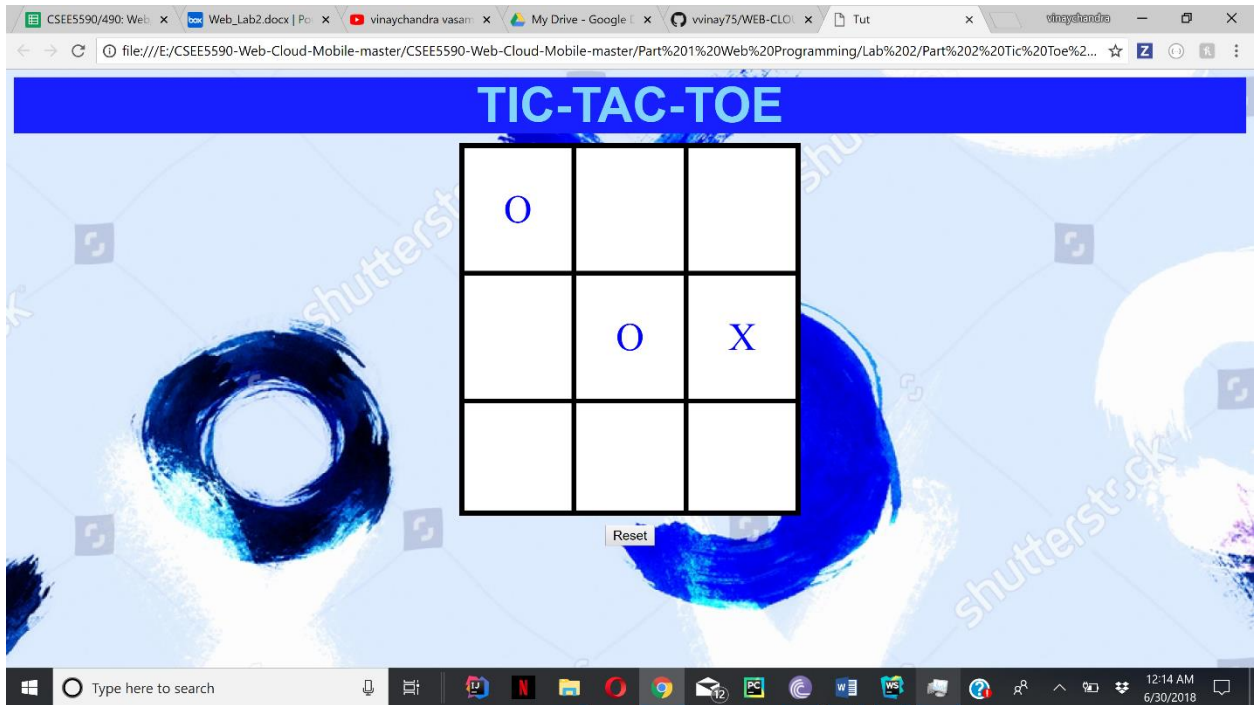
The bottom status bar shows a message: "Unregistered VCS root detected: The directory C:\Users\vrvina is under Git, but is not registered in the Settings. // Add root. Configure Ignore (3 minutes ago)". The system tray at the bottom right shows the time as 11:48 PM on 6/29/2018.

PART-II

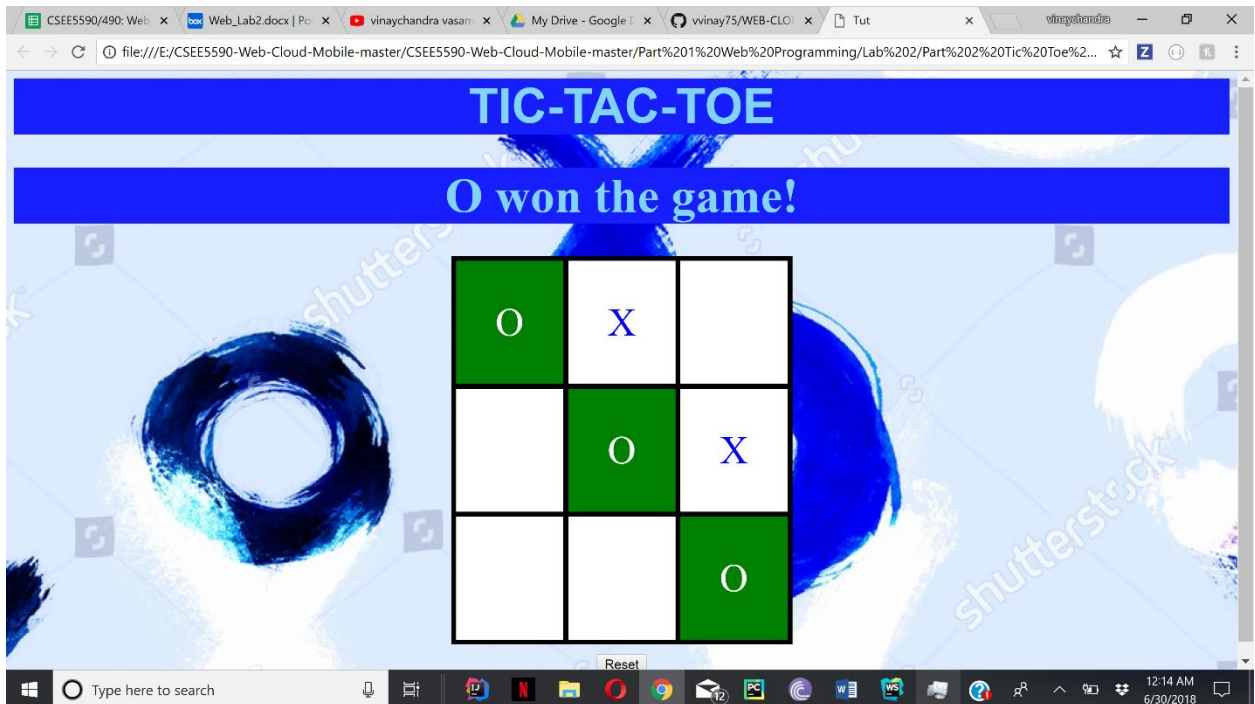
The second part is for the tic tac toe game

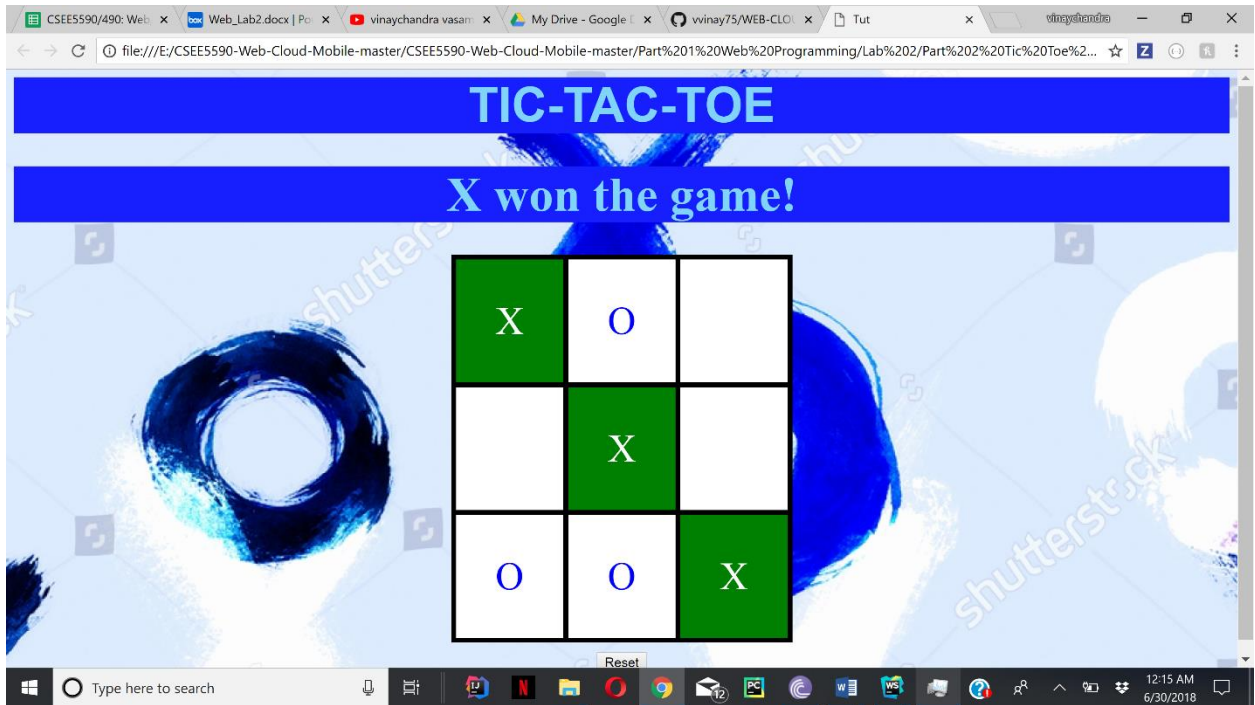
The game looks as below:





The screenshots for winning the game:





Code:

```

LABASSIGN-1 [C:\Users\wina\PycharmProjects\LABASSIGN-1] - C:\Users\wina\Downloads\firstsign.py - PyCharm
File Edit View Navigate Code Refactor Run Tools VCS Window Help
C:\Users\wina\Downloads\firstsign.py
firstsign.py second.py thirdsign.py 4thsign (1).py
LABASSIGN-1
venv library root
Include
Lib
Scripts
tcl
4thsign (1).py
second.py
thirdsign.py
External Libraries
1 import re
2 p = input("please enter your password:")
3 x = True
4 while x:
5     if (len(p)<6 or len(p)>16):
6         break
7     elif not re.search("[a-z]",p):
8         break
9     elif not re.search("[0-9]",p):
10        break
11    elif not re.search("[A-Z]",p):
12        break
13    elif not re.search("[!@#$%^&*]",p):
14        break
15    elif re.search("\s",p):
16        break
17    else:
18        print("Valid Password")
19        x = False
20        break
21
22 if x:

```

Run firstsign

```

C:\Users\wina\PycharmProjects\LABASSIGN-1\venv\Scripts\python.exe C:\Users\wina\Downloads\firstsign.py
please enter your password:vinay
Not a Valid Password

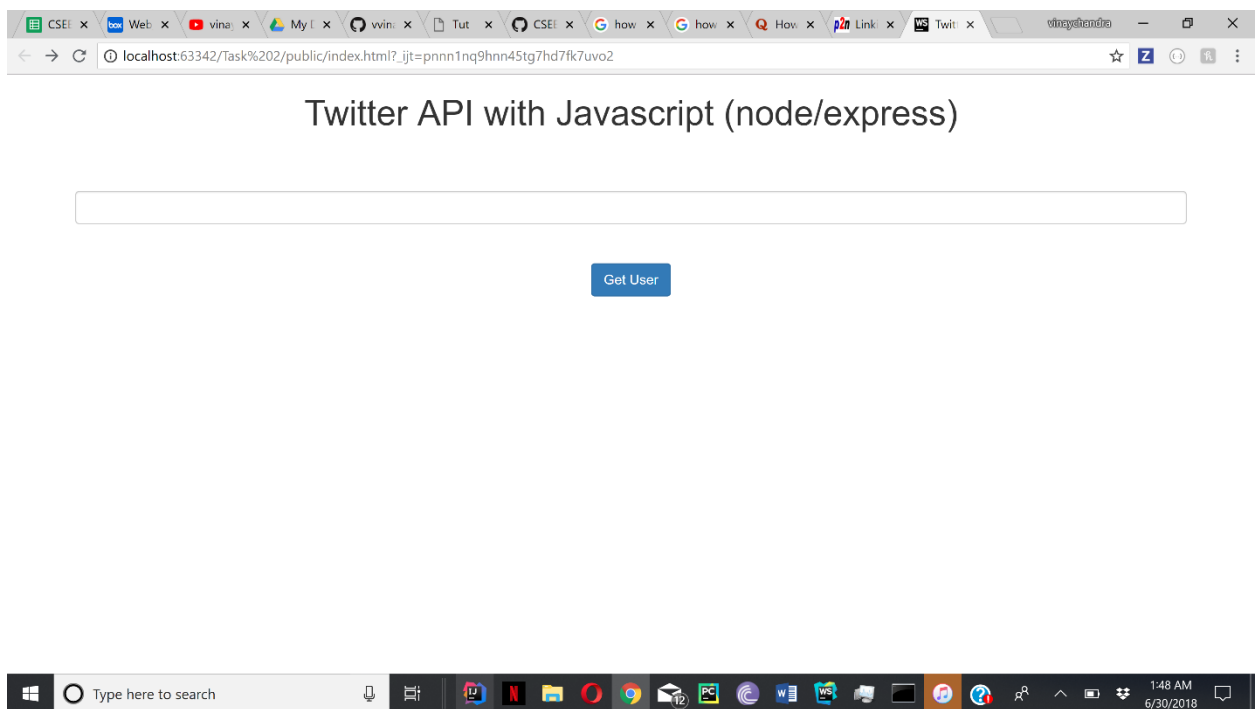
Process finished with exit code 0

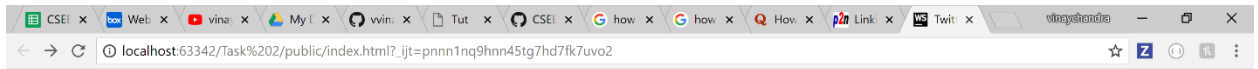
```


PART-III

The third part is for using twitter api and find friends list and show them in a tree visualization using d3.js

The home page and the output looks as below:





Twitter API with Javascript (node/express)

vinay75

Get User

