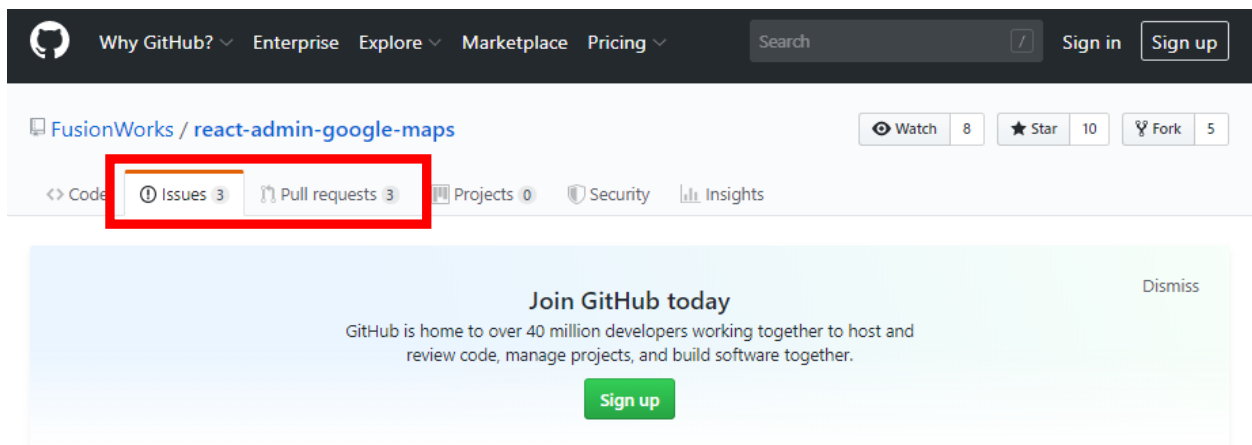


# GitHub

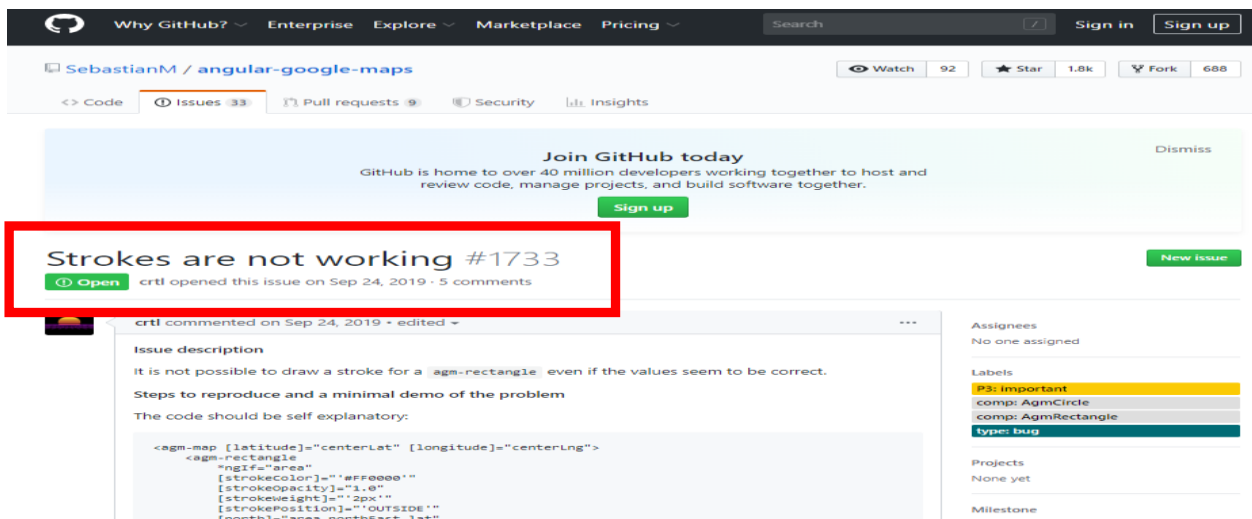
Part 1 (Due Feb 17, 2020)

## Introduction:

In this task, we are looking to extract detailed information about specific GitHub repositories. The repositories will be filtered by using the name of the repository. Then, you should extract each repository that have issues /pull requests and their comments.



Those Issues and pull requests may contain posts, we need to collect those posts for each issue/pull request with their timeline, number of likes for each post and the status of the issue ex.(open/close).





dockleryxk commented on Sep 24, 2019 • edited ▾

This works for me, I know it's a circle but maybe this will help

```
<agm-circle *ngFor="let marker of circles; trackBy: trackByFn"
  [fillColor]="'#000'"
  [fillOpacity]="0.2"
  [strokeColor]="'#000'"
  [strokeOpacity]="0.2"
  [strokeWeight]="5"
  [strokePosition]="0"
  [radius]="50"
  [latitude]="marker.latitude"
  [longitude]="marker.longitude">
</agm-circle>
```



1

## How to process this project:

There is two ways to extract GitHub information.

- Using GitHub API.
- Using BigQuery public dataset for GitHub.

<https://bigquery.cloud.google.com/table/githubarchive:year.2019?pli=1&tab=details>

The list of APIs name can be found in **APIsName.CSV** the file attached.

The **First** step to identify all repositories related to APIs. Using public Dataset from Google BigQuery **githubarchive** : year (2019) and other years.

### **For example:**

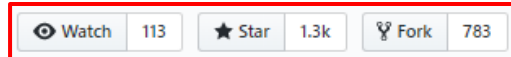
We can know how many repositories for Google Maps API by applying this query in 2019

```
SELECT repo.name FROM [githubarchive:year.2019] where repo.name
CONTAINS 'googlemaps' or repo.name CONTAINS 'google-maps' OR repo.name
CONTAINS 'google-maps-api' or repo.name CONTAINS "googlemapsapi" Group by
repo.name
```

Results	Details
Row	repo_name
1	stuartcryan/advanced-google-maps-alfred-workflow
2	felipevencato/ionic-googlemaps-quickdemo-v4
3	neemiasRamos/web-scraping-google-maps
4	Ironhack-labs/lab-googlemaps-express
5	GhayoorUIHag/androidapp-googlemaps
6	Harshpinder-singh/static-googlemaps-marker
7	kwen1000/ego-maps-for-google-maps
8	plentymarkets/plugin-google-maps-widget
9	telmomartins82/cordova-plugin-googlemaps
10	renatovisuals/google-maps-test
11	WagnerSilvaRamos/Vue-with-vue-google-maps
12	JaPache/angular-google-maps
13	adriolo/google-maps-services-java
14	tntmod54321/googlemapsuisdiable
15	Wilkor/google-maps-api
16	aner-shab/angular-google-maps
17	xini/silverstripe-googlemaps
18	amitos80/google-maps-react
19	gstcarv/react-native-google-maps-services

Table JSON First < Prev Rows 1 - 19 of 2195 Ne

We are looking to extract repositories information



The

first generated files would include the list of repositories and their # of Watch, Stat and Fork. You should save this file in CSV format and name each file by their index number ex. (Google Maps API ---- > 1.CSV).

### The list of required information for each repository:

- 1- API ID
- 2- API name
- 3- repo.name
- 4- # watch
- 5- # star
- 6- # fork
- 7- #Subscribers

<https://api.github.com/repos/googlemaps/google-maps-services-java>

The **Second** step is to extract the repositories activity information (Issues and Pull requests)

Example:

<https://github.com/googlemaps/google-maps-services-java/issues>

<https://github.com/googlemaps/google-maps-services-java/pulls>

We can get that information from GitHub API

<https://api.github.com/repos/googlemaps/google-maps-services-java/issues>

A screenshot of a GitHub issue page. The title is "Google Maps fails to use TLS 1.2 in Java 8 environment #635". The issue was opened by "bmccauley" on Dec 12, 2019. The description states: "I am running Google Maps 0.10.1 under Java 1.8.0\_221. When I try to run the given sample code: [code block] I get an exception: [code block] Google Maps believes that TLSv1 is the only supported protocol. However, if I test this by creating an SSLSocket: [code block] I see TLSv1, TLSv1.1, and TLSv1.2. Google Maps should be able to use TLSv1.2 like other libraries in my environment." The issue has labels "triage me" and "type: bug". A comment by "jpoehnelt" on Dec 13, 2019, says "Might be similar to dropbox/dropbox-sdk-java#246". A mention by "jpoehnelt" on Dec 13, 2019, says "fix: upgrade okhttp to 4.2.2 #636". The right sidebar shows "Assignees: No one assigned", "Labels: triage me, type: bug", "Milestone: No milestone", "Notifications: Subscribe", and "2 participants".

<https://api.github.com/repos/googlemaps/google-maps-services-java/issues/635>

<https://api.github.com/repos/googlemaps/google-maps-services-java/issues/635/comments>

<https://api.github.com/repos/googlemaps/google-maps-services-java/pulls/627>

<https://api.github.com/repos/googlemaps/google-maps-services-java/issues/627/comments>

### **The list of required information:**

- 1- Repository name
- 2- Issue title
- 3- Issue Body
- 4- Issue ID
- 5- Issue state (open/close)
- 6- Issue Date/Time
- 7- Issue - Comments Body
- 8- Issue - Comments Date/Time
- 9- Issue Labels: ( bug ..)
- 10- Pull request title
- 11- Pull request Body
- 12- Pull request ID
- 13- Pull request State
- 14- Pull request - Commit message
- 15- Pull request - Commit message Date/Time
- 16- The number of like and dislike for each Issue / Pull request comment.

The above information should be only plain text (Please remove pictures, URLs and Code Fragment) and store it in a single CSV file and name of the file with API index. (Ex. 1.csv for Google Maps API)

### **Useful links:**

<https://developer.github.com/v3/>

**Please feel free to contact me for any clarification:**

**Phone: 786 556 4167**

**Email: [Faisalb@umich.edu](mailto:Faisalb@umich.edu)**