

GitHub

API

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About Project GitHubAPI

GitHub

- GitHub, Inc. is an Internet hosting service for software development and version control using Git.
- GitHub is a code hosting platform for version control and collaboration. It lets us and others work together on projects from anywhere.
- It's used for storing, tracking, and collaborating on software projects.

API

- API stands for Application Program Interface
- APIs let your product or service communicate with other products and services without having to know how they're implemented. This can simplify app development, saving time and money.
- When you're designing new tools and products—or managing existing ones—APIs give you flexibility; simplify design, administration, and use; and provide opportunities for innovation.

GitHub API project helps you to get useful data of github user like Github user's name, twitter account , followers , following, repositories URL instead of getting whole unnecessary information.

This project ask user, github username whose data you want to fetch and it returns the information like:

Name:

Twitter username :

Following:

Followers:

Public repos URL:

Tech stack used in GitHub API

Backend - Server

1. Programming Languages - JavaScript
2. Runtime Environment - Node JS

NPM Packages

1. readline-sync:- Synchronous Readline for interactively running to have a conversation with the user via a console.
2. cli-color:- Colors, formatting and other goodies for the console. This package won't mess with built-ins and provides neat way to predefine formatting patterns.
3. axios:- The "axios" npm package is a popular JavaScript library used for making HTTP requests from both browsers and Node.js applications. It provides a simple and intuitive API for handling asynchronous operations and interacting with APIs.

3. Proposed Solution

Procedure

Installing axios, readline-sync , cli-color packages

Importing packages

```
import readline from "readline-sync"
import axios from "axios"
import color from "cli-color"
```

Using Cli-color package, naming the cli package codes to the new color variables.

```
const red = color.xterm(1)
const blue=color.xterm(31)
const orange=color.xterm(166)
const green=color.xterm(79)
const pink=color.xterm(5)
```

Asking user username of the github by using readline-sync package

```
let username = readline.question(blue("Enter Github username: "));
```

Using axios.get to fetch the data from API . also, using then and catch block to fulfil the promise

```
let data = axios.get(`https://api.github.com/users/${username}`)
data
  .then((response)=>{
    let final=response.data
    console.log(orange("\n*****"))
    console.log(pink(`\n1. Name : ${final.name}`))
    if(final.twitter_username==null){
      console.log(pink(`\n2. Hello ${final.name} your twitter account is uncreated or you have no account!!`))
    }else{
      console.log(pink(`\n2. Twitter name : ${final.twitter_username}`))
    }
    console.log(pink(`\n3. Public Repos : ${final.public_repos}`))
    console.log(pink(`\n4. Public Gists : ${final.public_gists}`))
    console.log(pink(`\n5. Followers Are : ${final.followers} and Following Are : ${final.following}`))
    console.log(orange("\n*****"))
  })
  .catch((error)=>{
    console.log("There is mistake in http link or in .then block")
  })
```

1. On Line no 4. In then block we are taking final variable and storing the response of data we are getting from API
2. On Line no 6. We are displaying the name from the whole data using final.name and using color code stored in the variable pink.
3. On Line no 10. We are displaying the twitter name from the whole data using final.twitter_username using color code stored in the variable pink.
4. On Line no 8. If the user dosen't have twitter account, if it is null then we are printing "Hello \${final.name} is uncreated or you have no account".
5. On Line 12 displaying public repos using color pink.
6. On Line 13 displaying public gists using color pink.
7. On Line no 14 we are displaying the following and followers using final.followers , final.following, using color code stored in the variable pink
8. On Line no 18 in catch block we are printing error

Installation of GitHub API

GitHub Repository: <https://github.com/mohdriyaan/GitHub-API>

To clone and Install packages:

```
riyaan@riyaan:~$ git clone git@github.com:mohdriyaan/GitHub-API.git
Cloning into 'GitHub-API'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (7/7), done.
Receiving objects: 100% (12/12), 4.87 KiB | 1.22 MiB/s, done.
remote: Total 12 (delta 2), reused 9 (delta 2), pack-reused 0
Resolving deltas: 100% (2/2), done.
```

To Run Project

cd Github-API

npm i

npm start

Output :-

```
*****
Github-Search-Engine-Project
*****
Enter username : mohdriyaan
*****
1. Name : Mohammed Riyaan
2. Twitter name : mr_riyaan135
3. Public Repos : 19
4. Public Gists : 16
5. Followers Are : 8 and Following Are : 14
*****
```