

# 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

## 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 pink = color.xterm(212)
const peach = color.xterm(224)
const blue = color.xterm(153)
const lime = color.xterm(229)
const purple = color.xterm(147)
```

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

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

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

```
axios.get(`https://api.github.com/users/${username}`)
then((response)=>{
  let data = response.data
  console.log(lime("Name: ",data.name))
  console.log(blue("Twitter username 🐦: ",data.twitter_username))
  if (data.twitter_username == null){
    console.log(blue("Twitter account is not created yet"))
  }

  console.log(peach("Following: ",data.following))
})
```

```

    console.log(pink("Followers: ",data.followers))
    console.log(purple("Public repos URL: ",data.repos_url))
  })
  .catch((error) =>{
    console.log(error,"error")
  })

```

1. On line no 3. In then block we are taking data variable and storing the response of data we are getting from API
2. Line 4. We are displaying the name from the whole data using data.name and using color code stored in the variable lime
3. Line 5 We are displaying the twitter username from the whole data using data.twitter\_username using color code stored in the variable blue
4. Line 6 If the user doesn't have twitter account, if it is null then we are printing twitter account is not created yet
5. Line 8 & 9 we are displaying the following and followers using data.followers, data.following, using color code stored in the variable peach and pink
6. line 10 displaying public repos URL using color purple
7. Line 11 in catch block we are printing error

# Installation of GitHub API

GitHub Repository: <https://github.com/ayeshakhatoon17/GitHubAPI>

To clone and Install packages:

```
ayesha@ayesha:~$ git clone git@github.com:ayeshakhatoon17/GitHubAPI.git
Cloning into 'GitHubAPI'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (7/7), done.
Receiving objects: 100% (10/10), 4.57 KiB | 4.57 MiB/s, done.
remote: Total 10 (delta 0), reused 7 (delta 0), pack-reused 0
ayesha@ayesha:~$ cd GitHubAPI
ayesha@ayesha:~/GitHubAPI$ npm i
```

To Run Project

```
npm start
```

Output :

```
Enter Github username: ayeskhatoon17
-----
Name: Ayesha Khatoon
Twitter username 🐦: Ayesha__Khatoon
Following: 6
Followers: 5
Public repos URL: https://api.github.com/users/ayeshakhatoon17/repos
```