

GitHub username

Problem Solving using C & C++ Project Report

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May 2022

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Abstract

This program takes GitHub usernames as input, fetches their account information by calling the GitHub API and lets you choose to sort it by various fields.

Literature Review

What's curl used for?

curl is used in command lines or scripts to transfer data. curl is also used in cars, television sets, routers, printers, audio equipment, mobile phones, tablets, settop boxes, media players and is the Internet transfer engine for thousands of software applications in over ten billion installations.

curl is used daily by virtually every Internet-using human on the globe.

Who makes curl?

curl is free and open source software and exists thanks to thousands of contributors and our awesome sponsors. The curl project follows well established open source best practices. You too can help us improve!

What's the latest curl?

The most recent stable version is 7.83.1, released on 11th of May 2022. Currently, 61 of the listed downloads are of the latest version.

Implementation Details

Setup

1. Clone this repository by git clone **<https://github.com/amitpatil215/github-username-c>**.
2. Install the **libcurl** dependency if you don't already have it: On **OS X**, use homebrew and run `brew install curl`.
3. On **Ubuntu**, `sudo apt-get install libcurl4-openssl-dev` will work. On **Fedora**, `sudo dnf install libcurl-devel`.

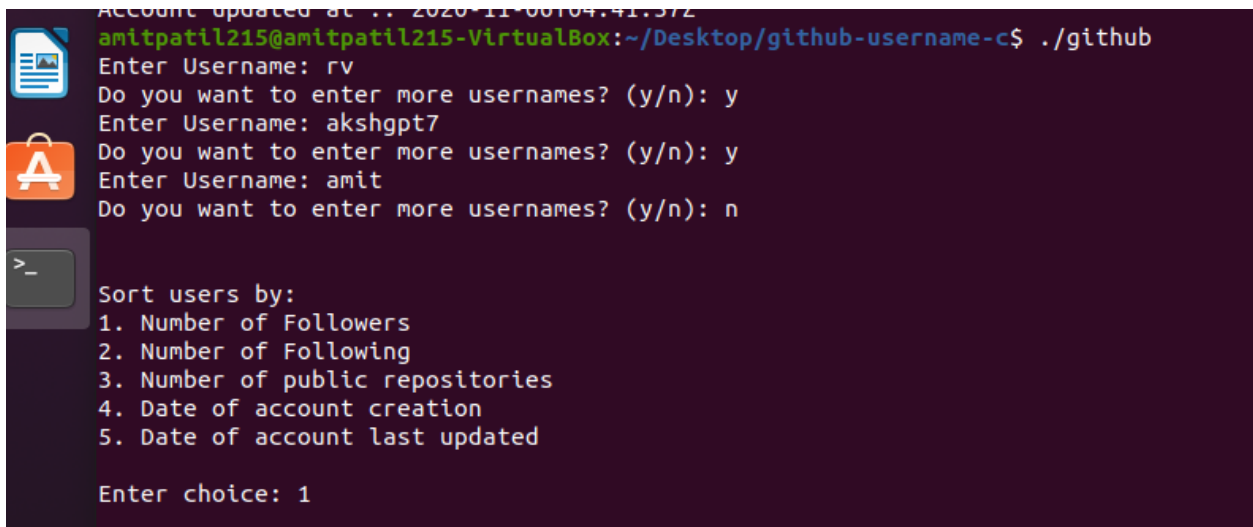
Usage

1. After cloning, change the working directory `cd github-username-c`.

2. Run the following command to compile the source: `gcc -o github github.c -L. -lrequests -lcurl`.
3. After compiling, to execute the program, run `./github`.

Results

Input username of n number of users



```
Account updated at : 2020-11-08T04:41:37Z
amitpatil215@amitpatil215-VirtualBox:~/Desktop/github-username-c$ ./github
Enter Username: rv
Do you want to enter more usernames? (y/n): y
Enter Username: akshgpt7
Do you want to enter more usernames? (y/n): y
Enter Username: amit
Do you want to enter more usernames? (y/n): n

Sort users by:
1. Number of Followers
2. Number of Following
3. Number of public repositories
4. Date of account creation
5. Date of account last updated

Enter choice: 1
```

Choose first choice for sorting according to users followers

```
Enter choice: 1

Sorted by Followers.
-----

----- #1 -----

Full Name :: Aksh Gupta
Location :: India
Bio :: Always learning new stuff! (he/him)\r\n
Public Repositories :: 45
Followers :: 59
Following :: 17
Account created at :: 2016-07-11T18:20:35Z
Account updated at :: 2022-04-23T11:29:48Z

----- #2 -----

Full Name :: Amit Chakradeo
Location :: null
Bio :: null
Public Repositories :: 38
Followers :: 16
Following :: 19
Account created at :: 2008-05-05T17:56:09Z
Account updated at :: 2022-05-20T02:08:28Z

----- #3 -----

Full Name :: Hervé
```

By number of following

----- #1 -----

Full Name :: Amit Chakradeo
Location :: null
Bio :: null
Public Repositories :: 38
Followers :: 16
Following :: 19
Account created at :: 2008-05-05T17:56:09Z
Account updated at :: 2022-05-20T02:08:28Z

----- #2 -----

Full Name :: Aksh Gupta
Location :: India
Bio :: Always learning new stuff! (he/him)\r\n
Public Repositories :: 45
Followers :: 59
Following :: 17
Account created at :: 2016-07-11T18:20:35Z
Account updated at :: 2022-04-23T11:29:48Z

----- #3 -----

Full Name :: Hervé
Location :: Lyon
Bio :: null
Public Repositories :: 4
Followers :: 2
Following :: 0
Account created at :: 2009-01-30T20:37:53Z
Account updated at :: 2020-11-06T04:41:57Z

According to the date of creation

----- #1 -----

Full Name :: Hervé
Location :: Lyon
Bio :: null
Public Repositories :: 4
Followers :: 2
Following :: 0
Account created at :: 2009-01-30T20:37:53Z
Account updated at :: 2020-11-06T04:41:57Z

----- #2 -----

Full Name :: Aksh Gupta
Location :: India
Bio :: Always learning new stuff! (he/him)\r\n
Public Repositories :: 45
Followers :: 59
Following :: 17
Account created at :: 2016-07-11T18:20:35Z
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References

1. Cosentino, Valerio, Javier Luis Cánovas Izquierdo, and Jordi Cabot. "Findings from GitHub: methods, datasets and limitations." 2016 IEEE/ACM 13th Working Conference on Mining Software Repositories (MSR). IEEE, 2016.
2. Dabbish, Laura, et al. "Social coding in GitHub: transparency and collaboration in an open software repository." Proceedings of the ACM 2012 conference on computer supported cooperative work. 2012.