

# Devops Zero to Hero

- **The Previous Shell Script :**

```
#!/bin/bash
```

```
# GitHub API URL
```

```
API_URL="https://api.github.com"
```

```
# GitHub username and personal access token
```

```
USERNAME=$username
```

```
TOKEN=$token
```

```
# User and Repository information
```

```
REPO_OWNER=$1
```

```
REPO_NAME=$2
```

```
# Function to make a GET request to the GitHub API
```

```
function github_api_get {
```

```
    local endpoint="$1"
```

```
    local url="${API_URL}/${endpoint}"
```

```
    # Send a GET request to the GitHub API with authentication
```

```
    curl -s -u "${USERNAME}:${TOKEN}" "$url"
```

```
}
```

```
# Function to list users with read access to the repository
```

```
function list_users_with_read_access {
```

```
local endpoint="repos/${REPO_OWNER}/${REPO_NAME}/collaborators"
```

```
# Fetch the list of collaborators on the repository
```

```
collaborators="$(github_api_get "$endpoint" | jq -r '[] | select(.permissions.pull == true) | .login')"
```

```
# Display the list of collaborators with read access
```

```
if [[ -z "$collaborators" ]]; then
```

```
    echo "No users with read access found for ${REPO_OWNER}/${REPO_NAME}."
```

```
else
```

```
    echo "Users with read access to ${REPO_OWNER}/${REPO_NAME}:"
```

```
    echo "$collaborators"
```

```
fi
```

```
}
```

```
# Main script
```

```
echo "Listing users with read access to ${REPO_OWNER}/${REPO_NAME}..."
```

```
list_users_with_read_access
```

## • The Updated Shell Script as per Assignment :

```
#!/bin/bash
```

```
#####
```

```
# Author : Amitabh
```

```
# date : 10/08/2024
```

```
#
```

```
# about : this script will help to print(Know) all collaborators(contributors in a particular repository)
```

```
#####
```

```
function helper {  
    expected_cmd_args=2  
    if [ $# -ne $expected_cmd_args ]; then  
        echo "Please execute the script with required cmd args"  
        exit 1  
    fi  
}
```

```
# GitHub API URL
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```
API_URL="https://api.github.com"
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# GitHub username and personal access token
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```
USERNAME=$username
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# User and Repository information
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```
REPO_OWNER=$1
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REPO_NAME=$2
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```
# Function to make a GET request to the GitHub API
```

```
function github_api_get {  
    local endpoint="$1"  
    local url="${API_URL}/${endpoint}"
```

```
# Send a GET request to the GitHub API with authentication
```

```

curl -s -u "${USERNAME}:${TOKEN}" "$url"
}

# Function to list users with read access to the repository

function list_users_with_read_access {

    local endpoint="repos/${REPO_OWNER}/${REPO_NAME}/collaborators"

    # Fetch the list of collaborators on the repository

    collaborators="$(github_api_get "$endpoint" | jq -r '[] | select(.permissions.pull == true) | .login')"
```

# Display the list of collaborators with read access

```

if [[ -z "$collaborators" ]]; then

    echo "No users with read access found for ${REPO_OWNER}/${REPO_NAME}."

else

    echo "Users with read access to ${REPO_OWNER}/${REPO_NAME}:"

    echo "$collaborators"

fi
}

helper "$@"

# Main script

echo "Listing users with read access to ${REPO_OWNER}/${REPO_NAME}..."

list_users_with_read_access
```

- **Output of that Updated script(Assignment Output) :**

```
ubuntu@ip-172-31-36-185:~/shell-scripting/github_api$ vim list_users.sh
ubuntu@ip-172-31-36-185:~/shell-scripting/github_api$ ./list_users.sh Python
-Resources shell-scripting
Listing users with read access to Python-Resources/shell-scripting...
Users with read access to Python-Resources/shell-scripting:
ronaksarvaya
Amitabh-DevOps
ubuntu@ip-172-31-36-185:~/shell-scripting/github_api$ ./list_users.sh
Please execute the script with required cmd args
ubuntu@ip-172-31-36-185:~/shell-scripting/github_api$ ./list_users.sh Python
-Resources
Please execute the script with required cmd args
ubuntu@ip-172-31-36-185:~/shell-scripting/github_api$ |
```