

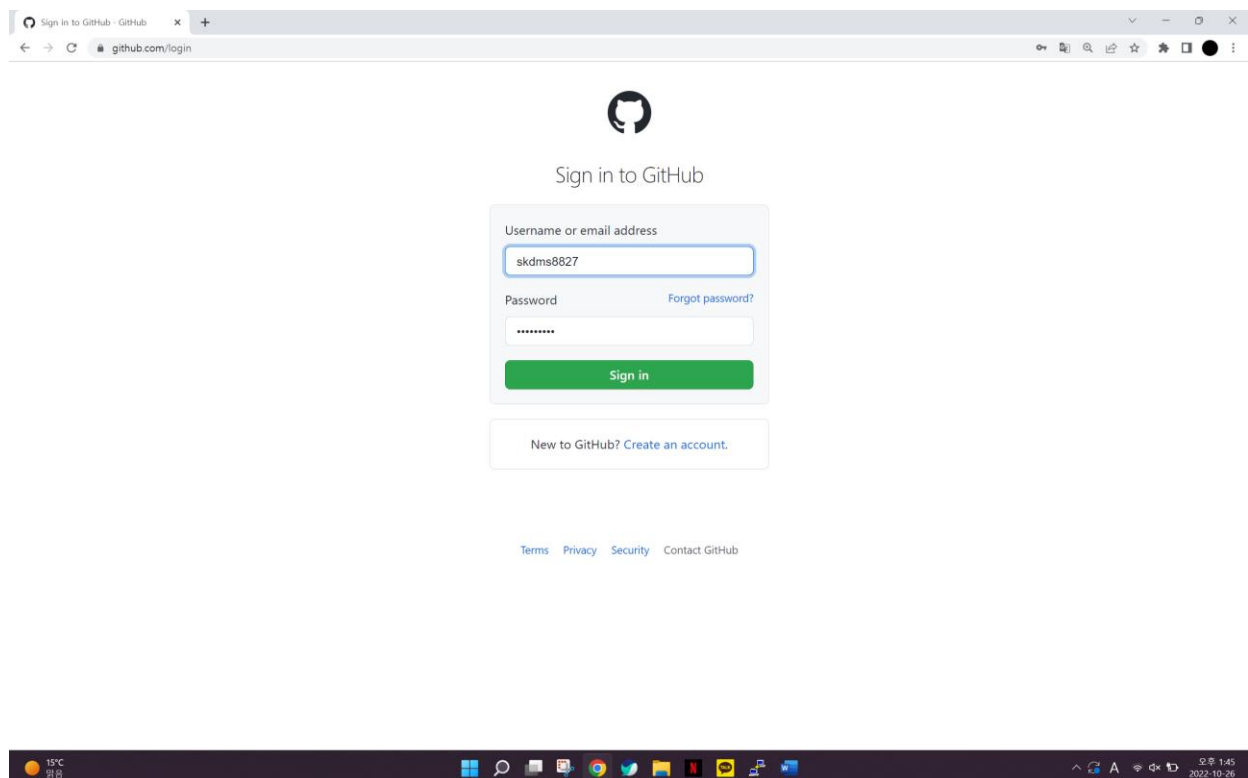
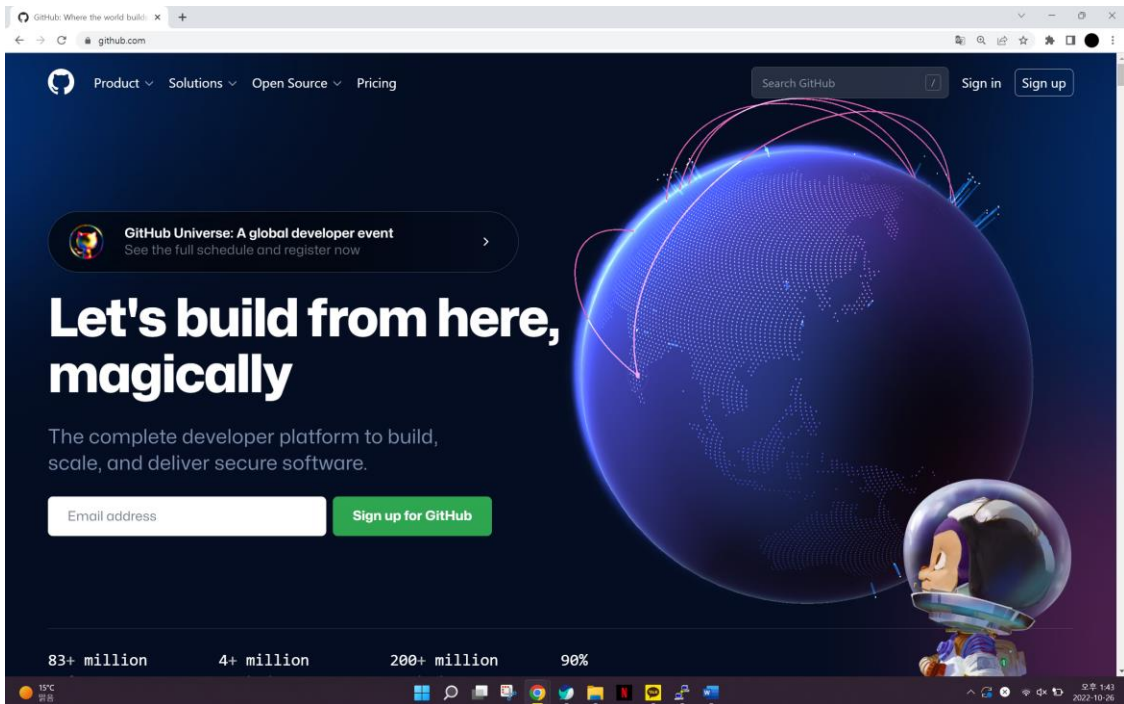
오픈소스 SW 개발도구 활용

과제 4

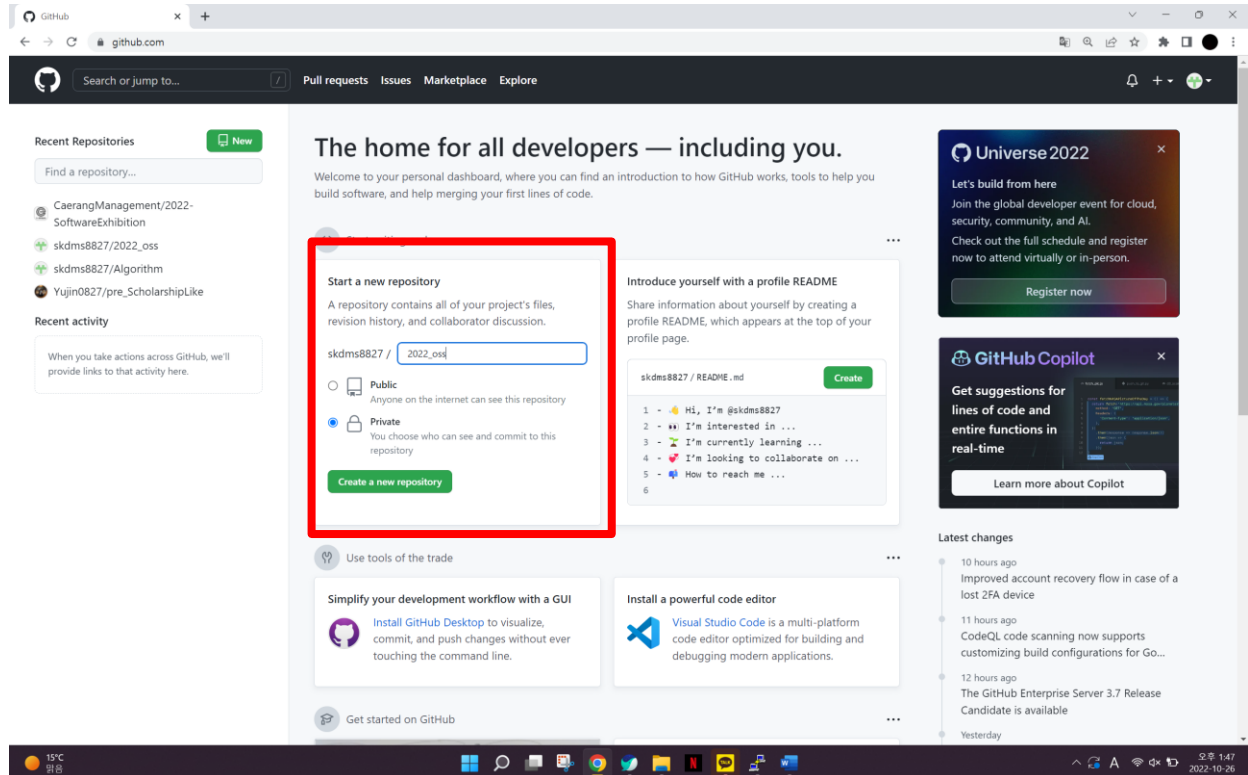
빅데이터

20185112 김나은

git에 대해 알아보자!

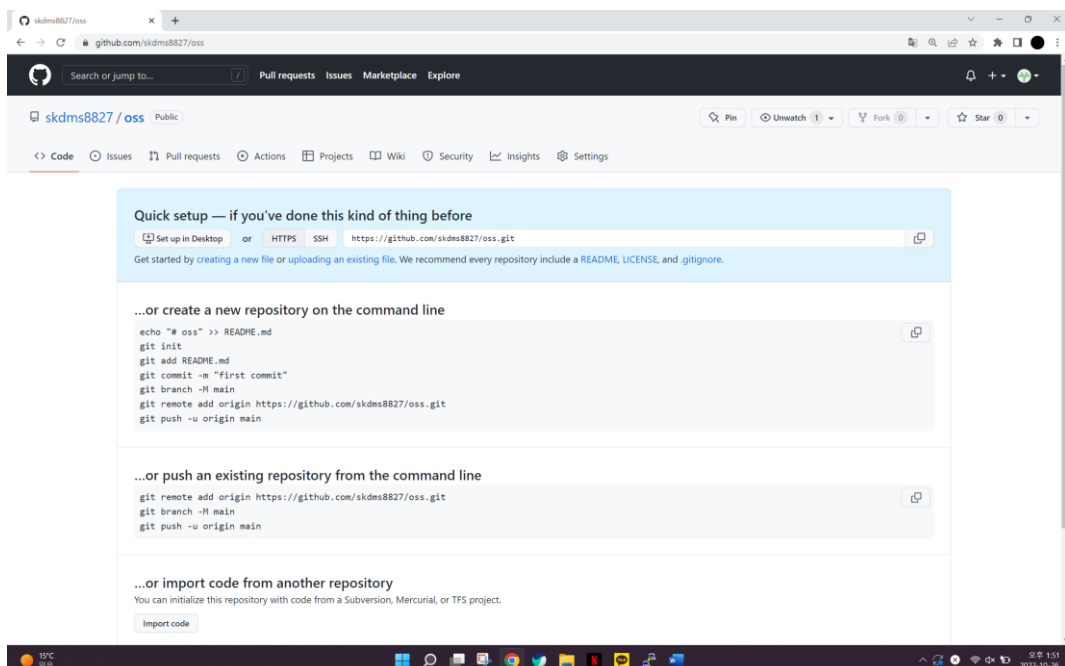


이미 계정이 있으니 바로 로그인한다.



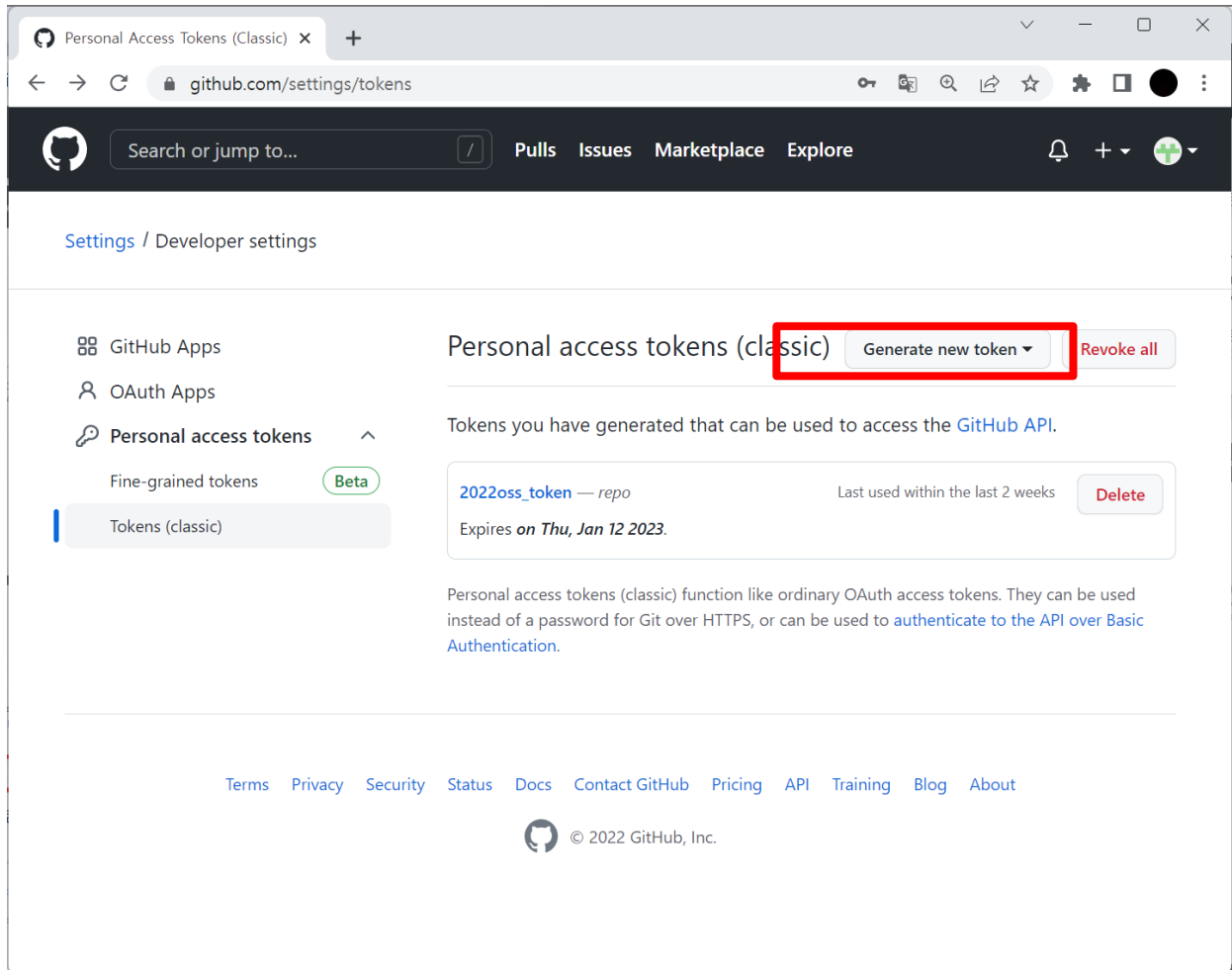
실습 때 만들어 둔 레퍼지토리가 있지만
다시 한번 레퍼지토리를 만드는 방법 확인.

원하는 레퍼지토리명을 적고 해당 레퍼지토리를 public or private 설정 후
Create a new repository 클릭한다.

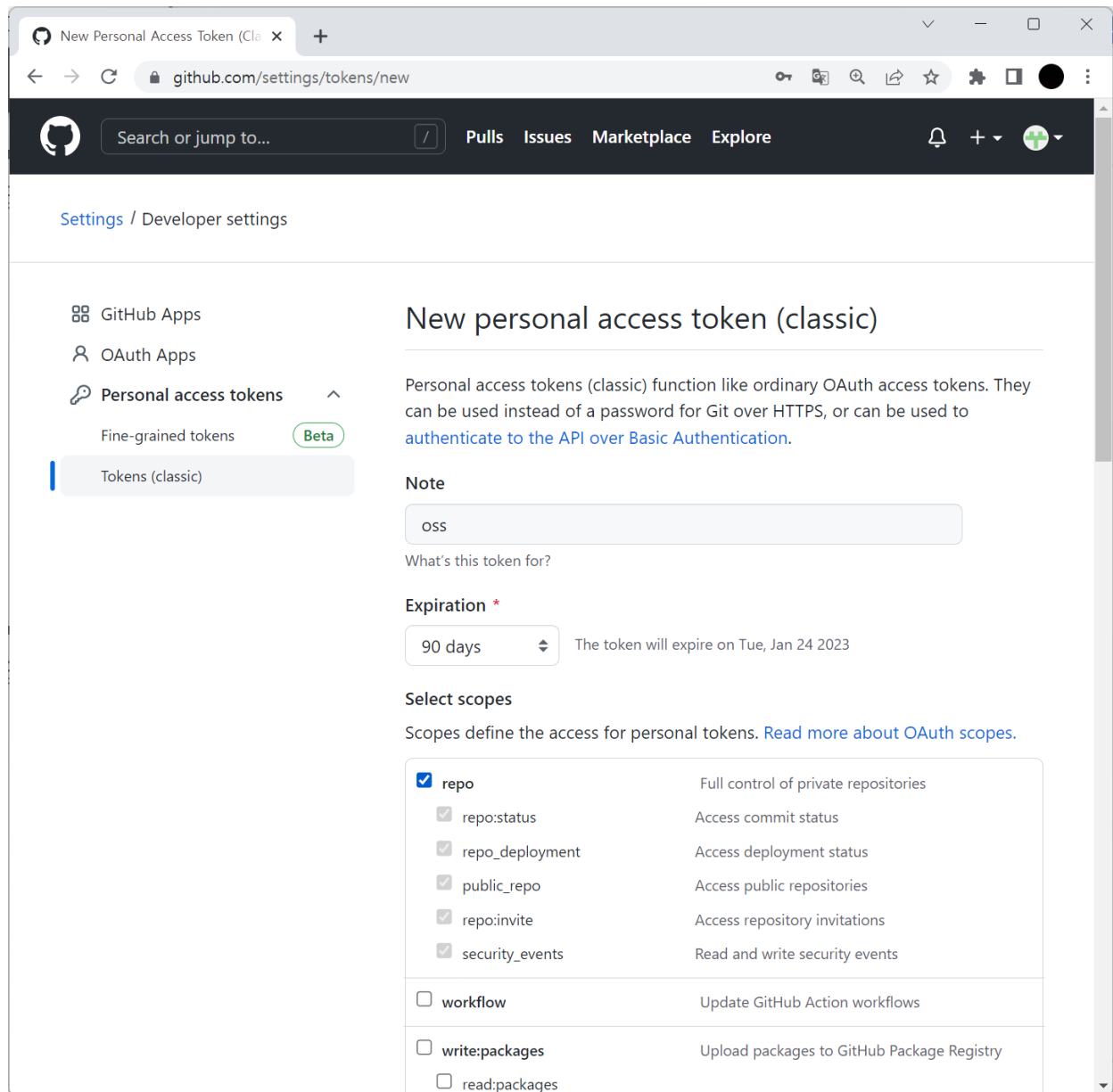


레퍼지토리가 생성되면 위와 같은 화면이 보인다.

토큰 기반 접속을 해본다.
오른쪽 상단의 내 프로필에서 Settings로 이동
페이지 왼쪽에 Developer settings 클릭 후
페이지 왼쪽에 Personal access tokens 클릭하면
아래와 같은 페이지가 보인다.

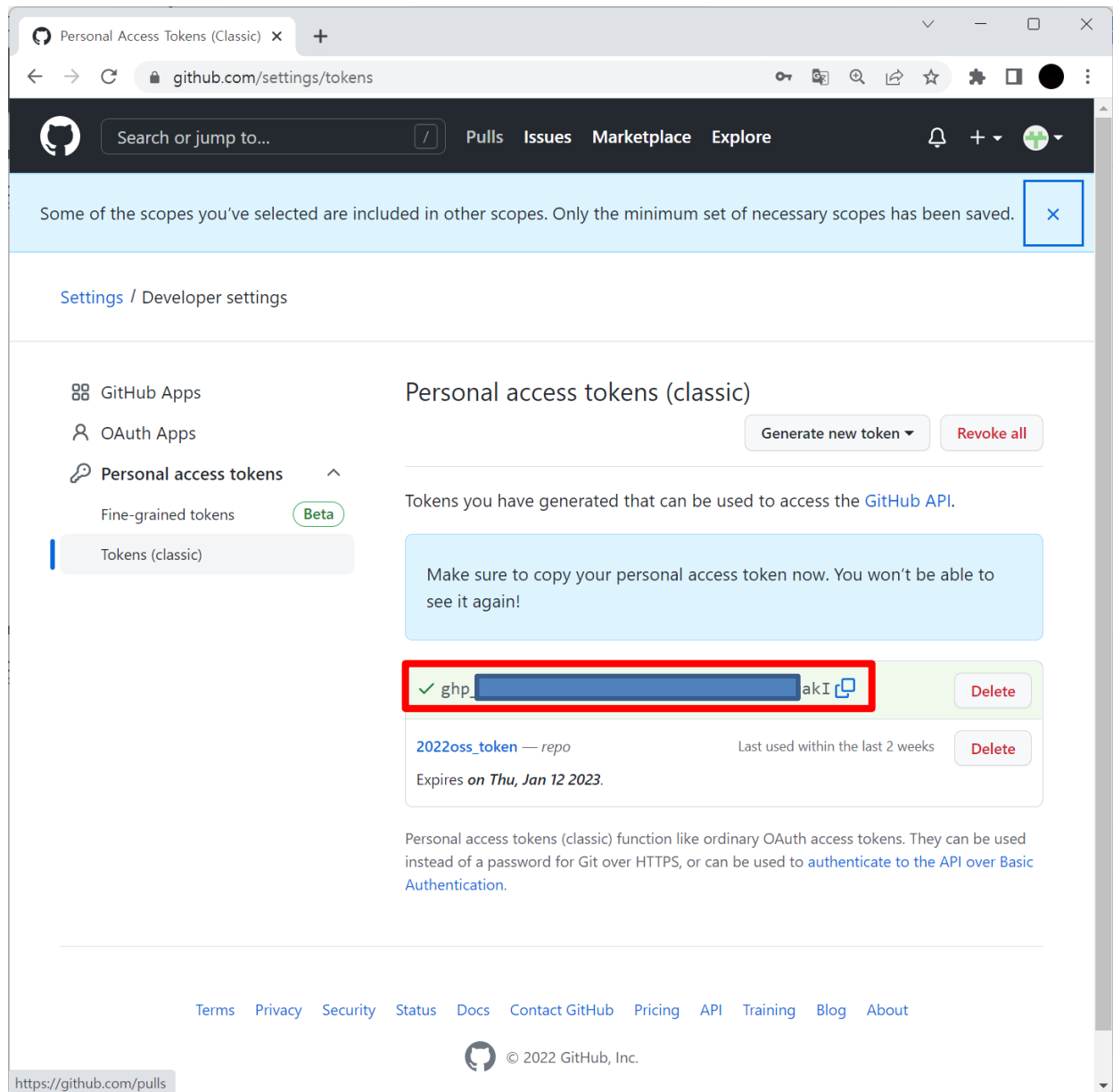


Generate new token 클릭

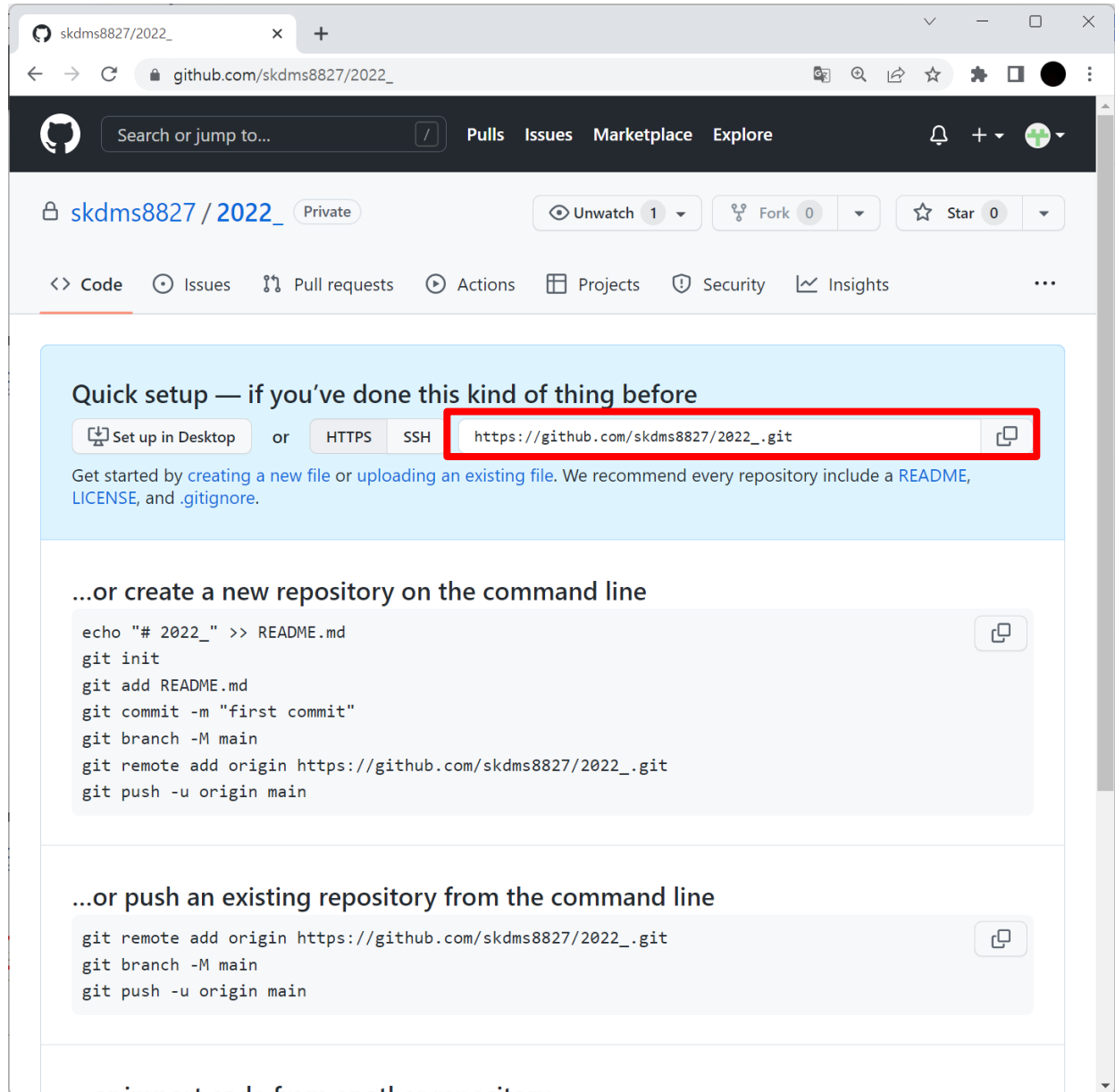


Note에서 토큰에 대한 설명을 설정하고
Expiration에서 토큰의 유효기간을 설정할 수 있다.
Select scopes로 접속 범위를 설정한다.

설정을 마치고 하단의 Generate token 클릭!



외부에 노출되지 않도록 메모장에 따로 저장해둔다.



빨간 박스의 주소를 복사한다.

```
PuTTY (inactive)
Using username "skdms8827".
Authenticating with public key "skdms8827"
Linux sw 5.10.0-17-cloud-amd64 #1 SMP Debian 5.10.136-1 (2022-08-13) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Thu Oct 6 19:47:45 2022 from 218.152.251.161
skdms8827@sw:~$ ls
wordpress
skdms8827@sw:~$ mkdir git
skdms8827@sw:~$ cd git
skdms8827@sw:~/git$ git clone https://github.com/skdms8827/2022_oss.git
Cloning into '2022_oss'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
skdms8827@sw:~/git$ ls
2022_oss
```

putty로 GCP에 접속하고 git이라는 디렉토리를 만든다.

해당 디렉토리로 이동해서 전에 복사했던 주소로 clone 한다.

ls를 통해 git에서 생성한 레퍼지토리가 잘 clone 됐는지 확인해본다.

```
skdms8827@sw:~/git$ cd 2022_oss/
skdms8827@sw:~/git/2022_oss$ ls -al
total 16
drwxr-xr-x 3 skdms8827 skdms8827 4096 Oct 14 06:24 .
drwxr-xr-x 3 skdms8827 skdms8827 4096 Oct 14 06:24 ..
drwxr-xr-x 8 skdms8827 skdms8827 4096 Oct 14 06:24 .git
```

clone한 디렉토리로 이동하고 ls -al 명령어로 숨긴 파일까지 확인한다.

```
skdms8827@sw:~/git/2022_oss$ cd .git
skdms8827@sw:~/git/2022_oss/.git$ nano config
```

.git 으로 이동하여 git 디렉토리에 있는 config 파일을
nano를 통해 수정해보자.

```
skdms8827@sw: ~/git/2022_oss/.git
GNU nano 5.4 config
[core]
  repositoryformatversion = 0
  filemode = true
  bare = false
  logallrefupdates = true
[remote "origin"]
  url = https://skdms8827: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@github.com/skdms8827/2022_oss.git
  fetch = +refs/heads/*:refs/remotes/origin/*
[branch "main"]
  remote = origin
  merge = refs/heads/main
```

위와 같이 수정하면 본인 아이디와 토큰을 넣어 수정하면

매번 push 할때 아이디와 패스워드를 매번 입력해주지 않아도 된다.


```
skdms8827@sw:~/git/2022_oss/.git$ cd ..
skdms8827@sw:~/git/2022_oss$ nano README.md
```

다시 상위 파일로 돌아와 nano 에디터로 README.md를 만들어본다.

```
skdms8827@sw:~/git/2022_oss$ cat README.md
Hello World# 2022_oss
```

cat 명령어로 README.md 파일을 출력해본다.

```
skdms8827@sw:~/git/2022_oss$ git add .
skdms8827@sw:~/git/2022_oss$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   .config.swp
    modified:   README.md
```

수정한 파일들을 깃에 올리기 위해

git add . 명령어로 현재 디렉토리에 있는 모든 파일을 stage 단계에 올려준다.

git status를 통해 수정한 파일이 잘 등록됐는지 확인한다.

여기서 add 뒤에 . 은 모든 파일을 의미한다.

git add README.md 이렇게 해서 하나의 파일을 명시해 주어도 된다.

(.config.swp은 잘못 만든 파일이라 무시해도 된다.)

```
skdms8827@sw:~/git/2022_oss$ git commit -m "1st commit"
Author identity unknown

*** Please tell me who you are.

Run

git config --global user.email "you@example.com"
git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: empty ident name (for <skdms8827@sw.asia-northeast3-a.c.ringed-reserve-33
3006.internal>) not allowed
```

이제 새로운 버전을 만들기 위해 commit을 한다.

위와 같이 git commit 명령어를 사용해서 커밋을 시도했는데

다음과 같은 오류로 실패했다.

계속 내가 누군지 알려달라고 했다.

```

skdms8827@sw:~/git/2022_oss$ git config --global user.name
skdms8827@sw:~/git/2022_oss$ git config --global user.name "Naeun"
skdms8827@sw:~/git/2022_oss$ git config --global user.email "skdms8827@naver.com"
skdms8827@sw:~/git/2022_oss$ git commit -m "1st commit"
[main 57584f0] 1st commit
1 file changed, 1 insertion(+), 1 deletion(-)

```

그리고 바로 해결책을 알려주어서 다음과 같이 내 이름과 이메일을 적었더니 커밋을 할 수 있었다.

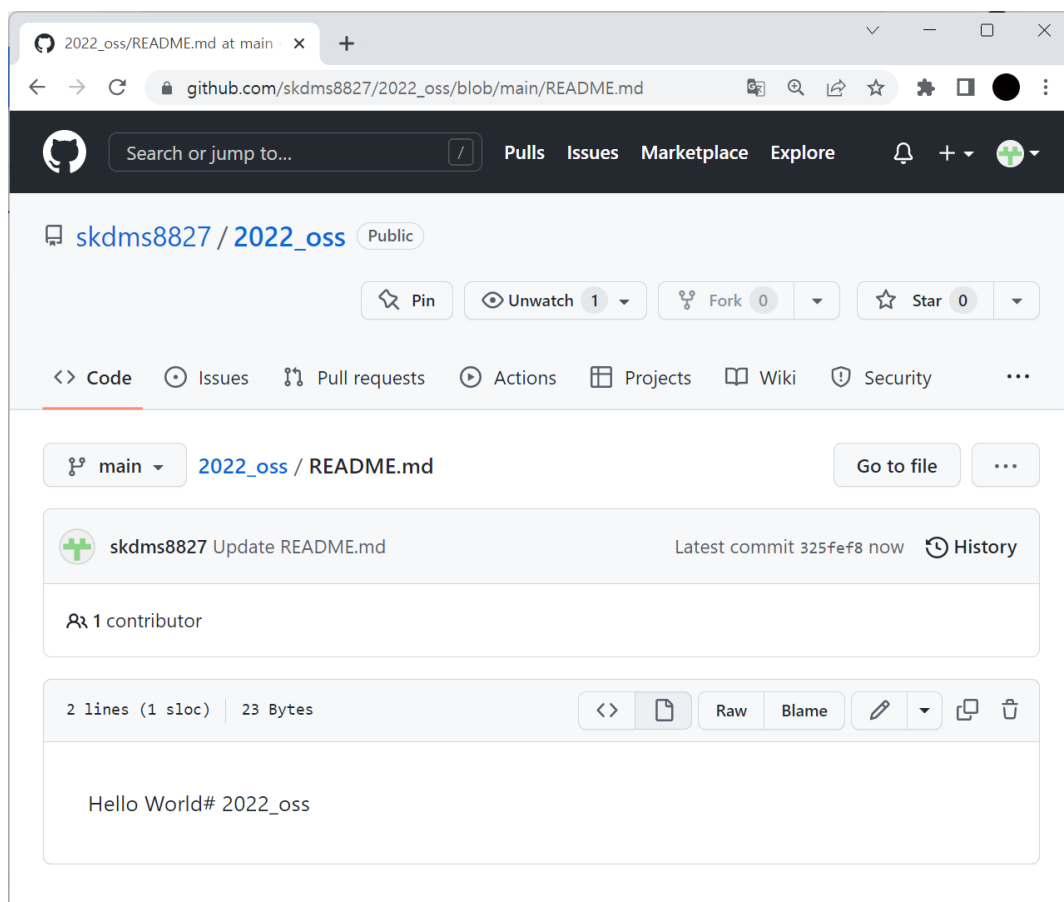
```

skdms8827@sw:~/git/2022_oss$ git branch -M main
skdms8827@sw:~/git/2022_oss$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 259 bytes | 259.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/skdms8827/2022_oss.git
1f37cb1..57584f0 main -> main

```

커밋 후

`git branch -M main`으로 새로운 브랜치 `main`을 생성하고
`git push origin main`으로 `main` 브랜치는 원격저장소에 전송한다.



github 홈페이지에서 내가 수정한 README.md 파일의 내용으로 보이면 성공!

Editing 2022_oss/README.md a x +

github.com/skdms8827/2022_oss/edit/main/README.md

Search or jump to... / Pulls Issues Marketplace Explore

skdms8827 / 2022_oss Public


Pin Unwatch 1 Fork 0 Star 0

<> Code Issues Pull requests Actions Projects Wiki Security

2022_oss / README.md in main Cancel changes

<> Edit file Preview Spaces 2 Soft wrap

```
1 # Hello World 2022_oss
2 # Hello Naeun world!
3 # Nice to meet you.
4
5
```

 Commit changes

readme update commit


Add an optional extended description...

☒ Commit directly to the main branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes Cancel

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이번에는 github 페이지에서 readme를 수정해서 커밋해보았다.

```

skdms8827@sw:~/git/2022_oss$ git pull
hint: Pulling without specifying how to reconcile divergent branches is
hint: discouraged. You can squelch this message by running one of the following
hint: commands sometime before your next pull:
hint:
hint:   git config pull.rebase false  # merge (the default strategy)
hint:   git config pull.rebase true   # rebase
hint:   git config pull.ff only       # fast-forward only
hint:
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
hint: invocation.
remote: Enumerating objects: 17, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 15 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (15/15), 3.40 KiB | 869.00 KiB/s, done.
From https://github.com/skdms8827/2022_oss
   c531a71..5f6d725  main       -> origin/main
Merge made by the 'recursive' strategy.
 README.md | 6 ++++--
 1 file changed, 4 insertions(+), 2 deletions(-)

```

페이지에서 수정한 README 파일을 pull 해서 가져온다.

```

skdms8827@sw:~/git/2022_oss$ cat README.md
# Hello World 2022_oss!
# Hello Naeun world!
# Nice to meet you.

```

다음과 같이 cat 으로 README.md 파일을 출력해

pull이 잘 됐는지 확인한다.

아주 잘됐다!

```

skdms8827@sw:~/git/2022_oss$ nano index.html
skdms8827@sw:~/git/2022_oss$ ls -l
total 8
-rw-r--r-- 1 skdms8827 skdms8827 20 Oct 14 06:45 README.md
-rw-r--r-- 1 skdms8827 skdms8827 17 Oct 14 06:46 index.html
skdms8827@sw:~/git/2022_oss$ git add .
skdms8827@sw:~/git/2022_oss$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   index.html

skdms8827@sw:~/git/2022_oss$ git commit -m "2nd commit"
[main a7f35ec] 2nd commit
 1 file changed, 1 insertion(+)
 create mode 100644 index.html
skdms8827@sw:~/git/2022_oss$
skdms8827@sw:~/git/2022_oss$ fit push origin main
-bash: fit: command not found
skdms8827@sw:~/git/2022_oss$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 289 bytes | 289.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/skdms8827/2022_oss.git
 825cfb5..a7f35ec  main -> main

```

```

skdms8827@sw: ~/git/2022_oss
GNU nano 5.4 index.html *
<html>
<head>
<tittle> INDEX </title>
</head>
<body>
<h1> hello world </h1>
<h2> nice to meet you </h2>
</body>
</html>
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line

```

이번에는 새로 index.html 파일을 만들어서 다음과 같이 작성하고
 README 파일을 깃에 올렸던 것처럼 동일한 과정으로
 index.html 파일을 깃에 push한다.

The image displays two screenshots of a GitHub repository named "skdms8827/2022_oss".

The top screenshot shows the repository's main page. It features a README file with the following content:

```
Hello World 2022_oss!  
  
Hello Naeun world!  
  
Nice to meet you.
```

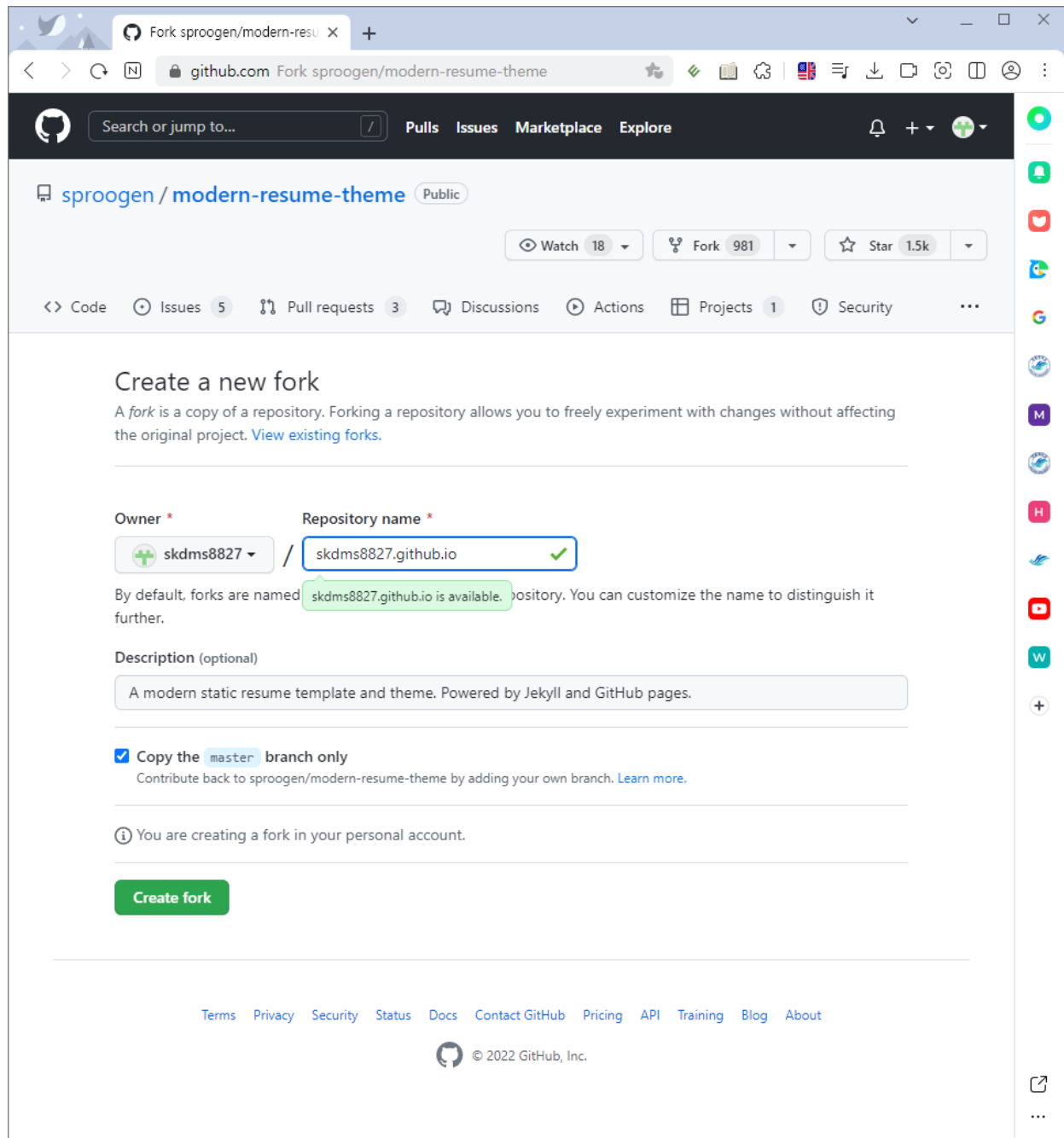
The bottom screenshot shows the "index.html" file in the "2022_oss" branch. The file content is as follows:

```
<html>  
<head>  
  <title> INDEX </title>  
</head>  
<body>  
  <h1> hello world </h1>  
  <h2> nice to meet you </h2>  
</body>  
</html>
```

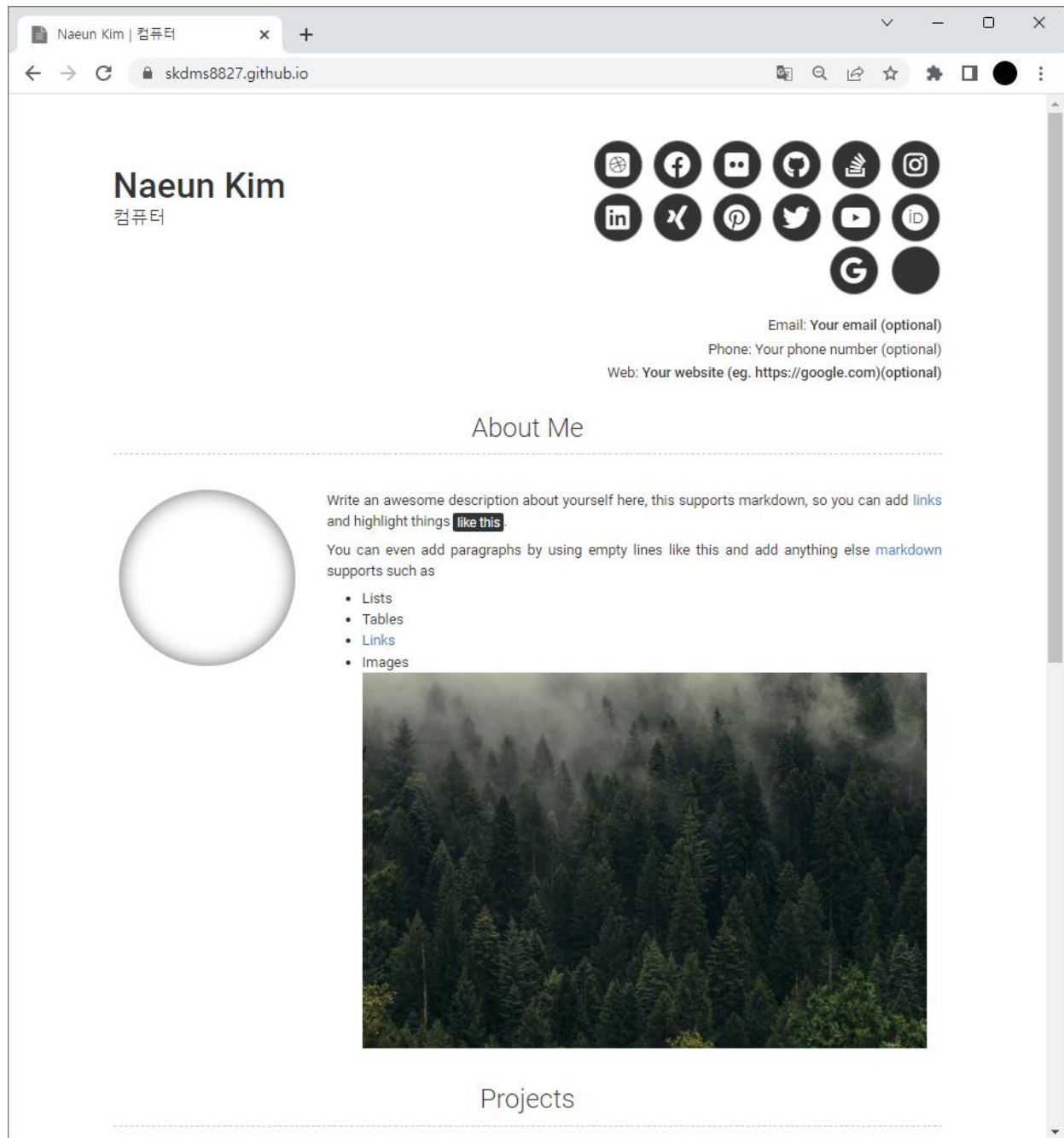
다음과 같이 git에 잘 push 됐다!

The screenshot shows the GitHub repository page for `sproogen/modern-resume-theme`. The repository is public and has 1.5k stars, 18 watchers, and 981 forks. The `Fork` button is highlighted with a red box. The repository description is: "A modern static resume template and theme. Powered by Jekyll and GitHub pages." The file list includes folders like `.github`, `_includes`, `_layouts`, `_sass`, `_test`, `assets`, `images`, and `lib/modern-resum...`, and files like `.dockerignore`, `.gitignore`, `CODE_OF_CONDU...`, `CONTRIBUTING.md`, `Gemfile`, `Gemfile.lock`, `LICENSE`, and `Procfile`. The right sidebar shows the repository's metadata, including the MIT license, code of conduct, 1.5k stars, 18 watchers, 981 forks, and 42 releases, with the latest release being `v2.0.10` on 17 Jan.

테마를 복사해서 레쥬메를 만들어 본다.



github.io를 만든다!



만든 주소로 이동하면 다음과 같은 페이지가 나온다.

```
naeunkim@naeunkim-virtual-machine:~/Desktop/git$ git clone https://github.com/skdms8827/skdms8827.github.io.git
Cloning into 'skdms8827.github.io'...
remote: Enumerating objects: 1606, done.
remote: Counting objects: 100% (15/15), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 1606 (delta 8), reused 10 (delta 5), pack-reused 1591
Receiving objects: 100% (1606/1606), 1.75 MiB | 221.00 KiB/s, done.
Resolving deltas: 100% (778/778), done.
naeunkim@naeunkim-virtual-machine:~/Desktop/git$ cd skdms8827.github.io/
naeunkim@naeunkim-virtual-machine:~/Desktop/git/skdms8827.github.io$ cd .git
naeunkim@naeunkim-virtual-machine:~/Desktop/git/skdms8827.github.io/.git$ nano config
naeunkim@naeunkim-virtual-machine:~/Desktop/git/skdms8827.github.io/.git$ cd ..
naeunkim@naeunkim-virtual-machine:~/Desktop/git/skdms8827.github.io$ nano _config.yml
```

```
naeunkim@naeunkim-virtual-machine: ~/Desktop/glt/skdms8827.github.io
GNU nano 6.2 _config.yml *
# Site
repository: Git repository where your resume will be hosted, only required if you are hosting on GitHub (eg. sproogen/modern-resume-theme)
# favicon: Directory of your favicon (eg. images/favicon.ico)(optional)

# Content configuration version
version: 2

# Personal info
name: Naeun Kim
title:
email: Your email (optional)
# email_title: Email (Email title override)
phone: Your phone number (optional)
# phone_title: Phone (Phone title override)
website: Your website (eg. https://google.com)(optional)
# website_title: Web (Website title override)

# Dark Mode (true/false/never)
darkmode: false

# Social links
twitter_username: jekyllrb
github_username: jekyll
stackoverflow_username: "00000001"
dribbble_username: jekyll
facebook_username: jekyll
flickr_username: jekyll
instagram_username: jekyll
linkedin_username: jekyll
xing_username: jekyll
pinterest_username: jekyll
youtube_username: jekyll
orcid_username: 0000-0000-0000-0000
googlescholar_username: D847cGsAAAAJ

# Additional icon links
additional_links:
- title: Link name
  icon: Font Awesome brand icon name (eg. fab fa-twitter) (https://fontawesome.com/icons?d=gallery&s=brands&m=free)
  url: Link url (eg. https://google.com)
# - title: another link
#   icon: font awesome brand icon name (eg. fab fa-twitter) (https://fontawesome.com/icons?d=gallery&s=brands&m=free)
#   url: Link url (eg. https://google.com)

# Google Analytics and Tag Manager
```

clone해서 _config.yml 파일을 수정해 꾸미면 된다.

<https://skdms8827.github.io/>