

# Connect to GitHub

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# A ) What is GitHub ?



## A) What is GitHub ?

: Most used by

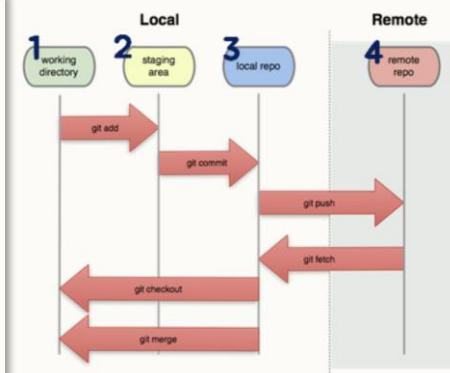
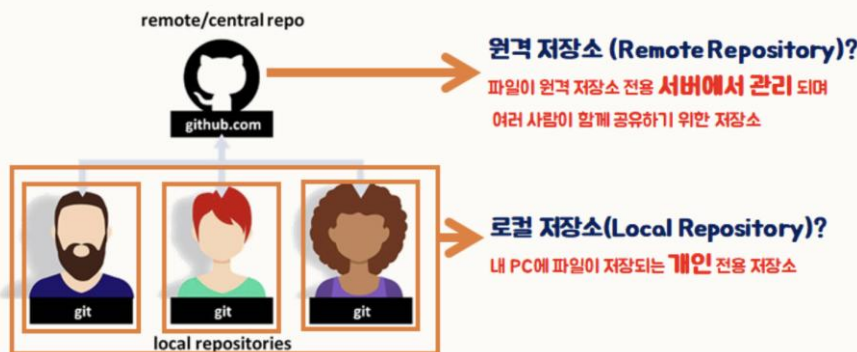
**software developers** One of the platforms for configuration management ( the process of tracking and controlling changes )



## GitHub Basics function

1. Remote code repository
2. Issue Tracking
3. Track and manage project progress
4. Manage code change history
5. Useful for developers

working concurrently



## 1. Working directory?

로컬 작업 디렉토리

## 2. Staging area?

커밋 시 반영되는 파일 보관

## 3. Local repo?

로컬에 저장된 파일을  
push할 경우 원격 저장소로 반영

## 4. Remote repo?

원격 저장소





## Why GitHub Do you use it ? Used

by millions of developers around the world to host and share code and collaborate on projects .

Provides features and tools to help developers manage and track their code, including version control , bug tracking , and project management .

## GitHub services



### GitHub Repository

GitHub is a representative service used by developers to store program source code .



### GitHub Projects

A service that can help you manage projects, like Atlassian JIRA .



GitHub Actions

### GitHub Actions

A DevOps pipeline automation tool that enables build , test , and deployment using continuous integration (CI) and continuous delivery (CD) .



### GitHub Discussions

a question-and-answer format, such as Stack Overflow or Quora .



### GitHub Packages

A service with the concept of an image registry that can store Docker containers or program packages (NPM, NuGet, Gem, Maven/Gradle) .



GitHub Copilot

### GitHub Copilot

A generative AI service that uses machine learning to automatically understand what developers are writing in code and write the rest for them .



### GitHub Codespace

An internet-based code editor IDE that allows development in a web browser without separate downloads or installations within the GitHub Repository .



### GitHub Advanced Security (GHAS)

Dependabot finds vulnerabilities in code packages And a service that provides various security functions ,

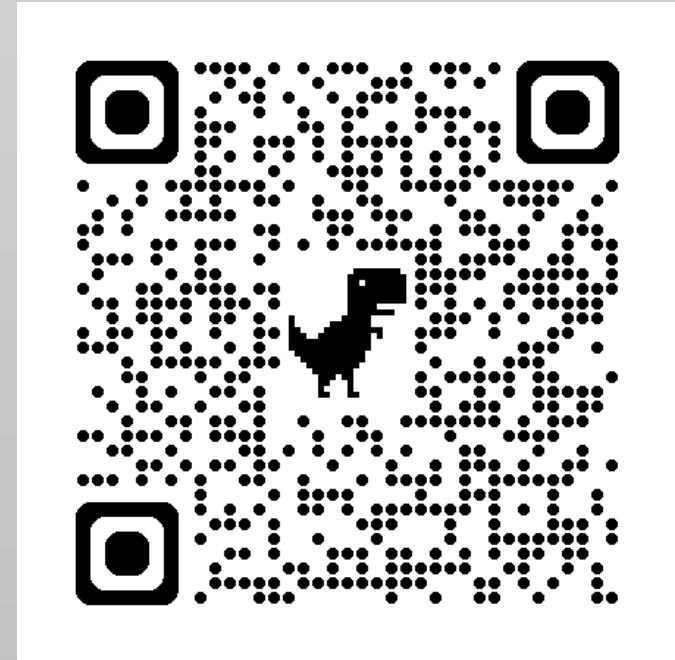
"Git이 영상을 찍는 앱이라면, GitHub는 유튜브 라는 플랫폼이다 라고 생각하면 편하다."

- 알파한 코딩사전

## GitHub usage video



<https://www.youtube.com/watch?v=FXDjmsiv8fl&t=212s>



<https://www.youtube.com/watch?v=Fley6IFhIC8>

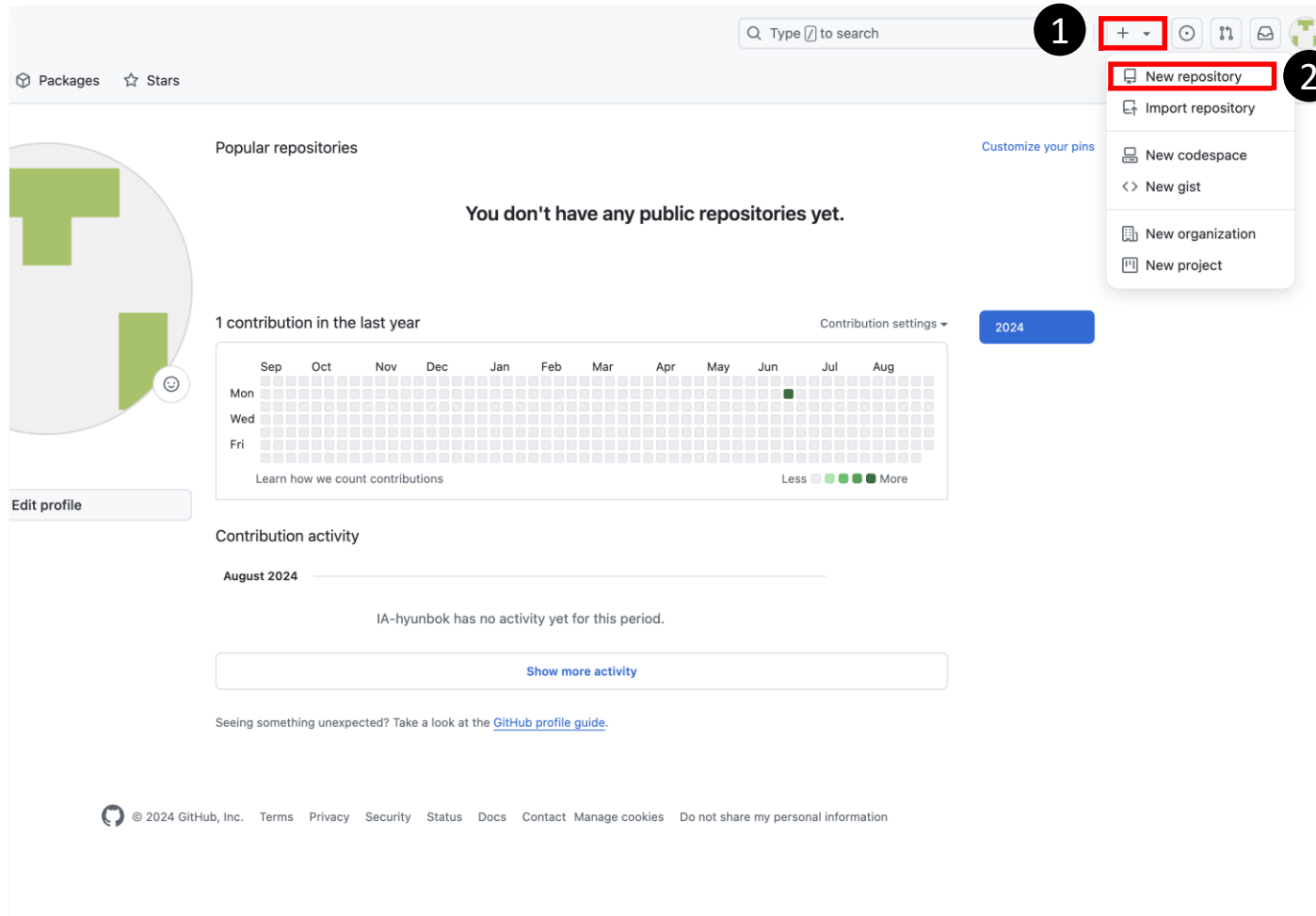
※ You must register as a member to use GitHub . ※

Please try registering as a member .



### B) How to use GitHub

#### 1) How to create a repository



- 1 First, go to <https://github.com>.  
This is your personal **GitHub**.  
After logging in to your account, click **[+]** in the **upper right corner** Click the drop-
- 2 down button .  
Click [new repository] .



### B) How to use GitHub

#### 1) How to create a repository

**Create a new repository**  
A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk (\*).

Owner \* / Repository name \* **1**  
[Avatar] /  **1**  
✓ ia-codysey is available.

Great repository names are short and memorable. Need inspiration? How about [supreme-octo-enigma](#) ?

Description (optional) **2**  
 **2**

☒ **Public**  
Anyone on the internet can see this repository. You choose who can commit. **3**  
☐ **Private**  
You choose who can see and commit to this repository.

**Initialize this repository with:**  
☒ **Add a README file**  
This is where you can write a long description for your project. [Learn more about READMEs](#).  
☒ **Add .gitignore**  
.gitignore template:   
Choose which files not to track from a list of templates. [Learn more about ignoring files](#).  
☒ **Choose a license**  
License:   
A license tells others what they can and can't do with your code. [Learn more about licenses](#).  
This will set `main` as the default branch. Change the default name in your [settings](#).

**4**  
☒ You are creating a public repository in your personal account.

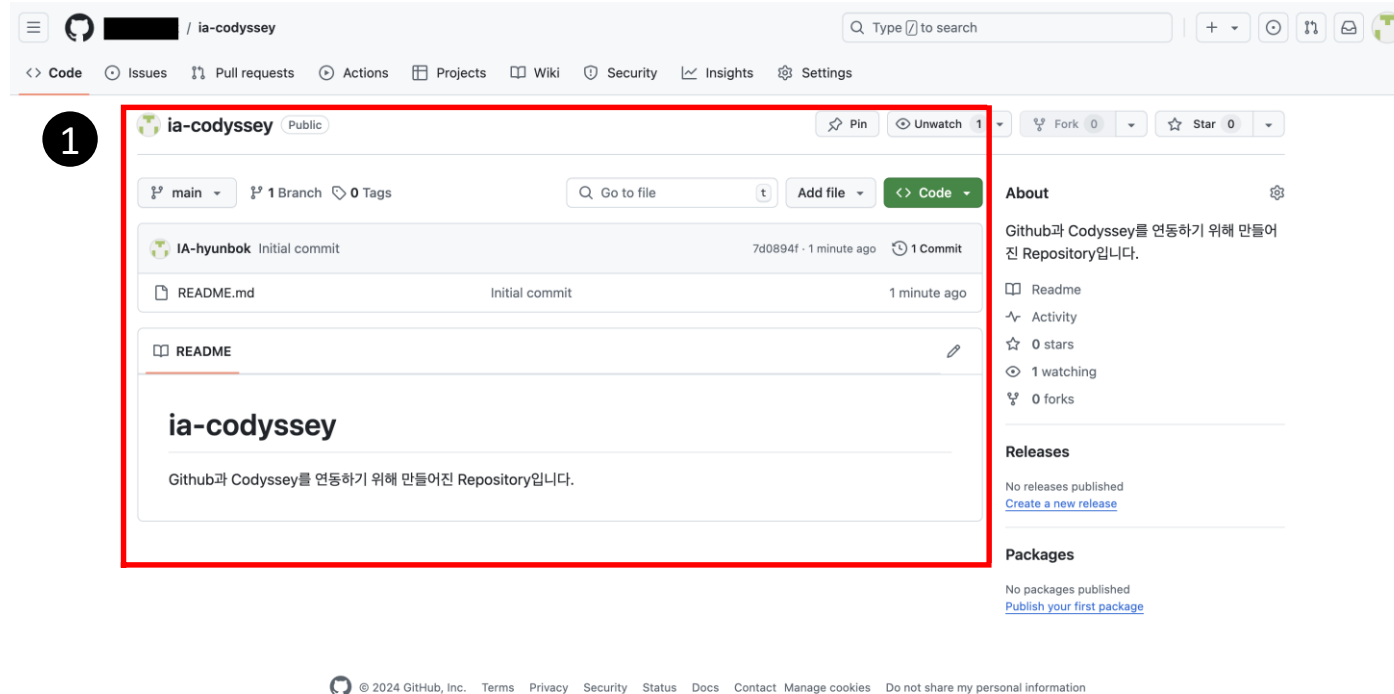
**4**  
 **4**

- 1** Please enter the name of the repository .
- 2** is a field to describe what kind of repository it is . ( Optional )
- 3** You can set whether the repository is public to other users .  
" Codysey To use the platform, you must " You must select **[Public]** .
- 4** every Once the setup is complete, click **[Create repository]** When you click the button, the Repository is finally created.  
☒ This section sets other information about the repository .  
Study it yourself .



### B) How to use GitHub

#### 1) How to create a repository



1 You can check the created Repository .

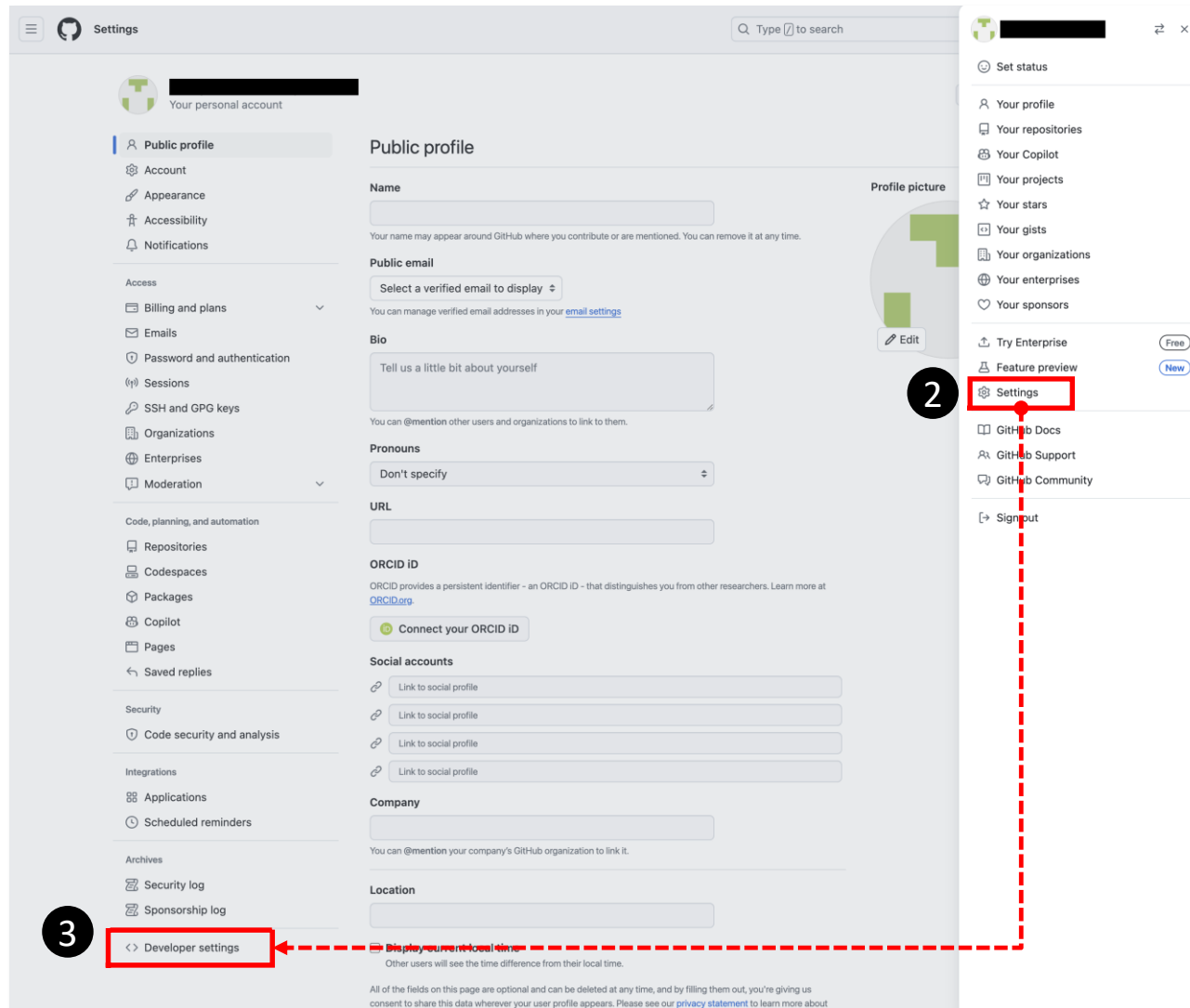


## C) Connect with



### C) Connect with

1) You can obtain a token to link Codysey and GitHub .



1 First, go to <https://github.com> .

This is your personal **GitHub**.  
After logging in to your account, click on your profile in the top right corner .

2 **[Settings]** Click the button .

When you click it, you will be taken to a screen like the picture

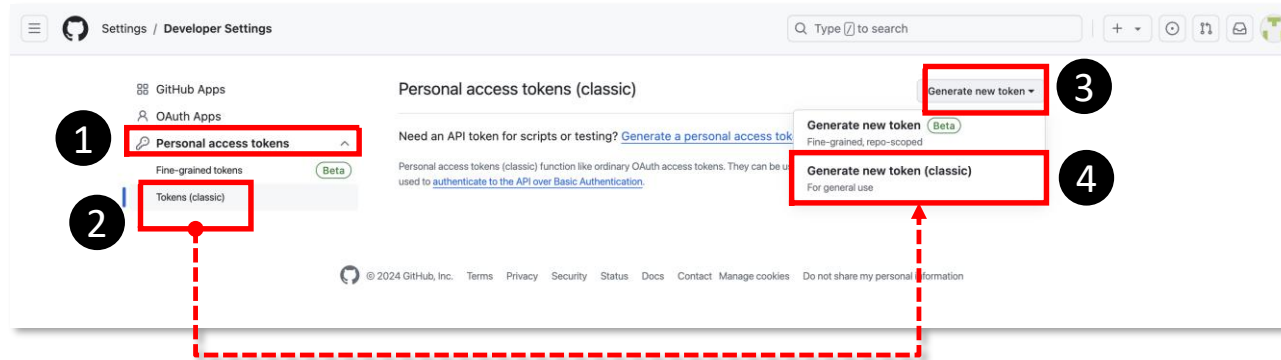
3 **[Developer settings]** at the

very bottom of the screen

Click the button .

### C) Connect with

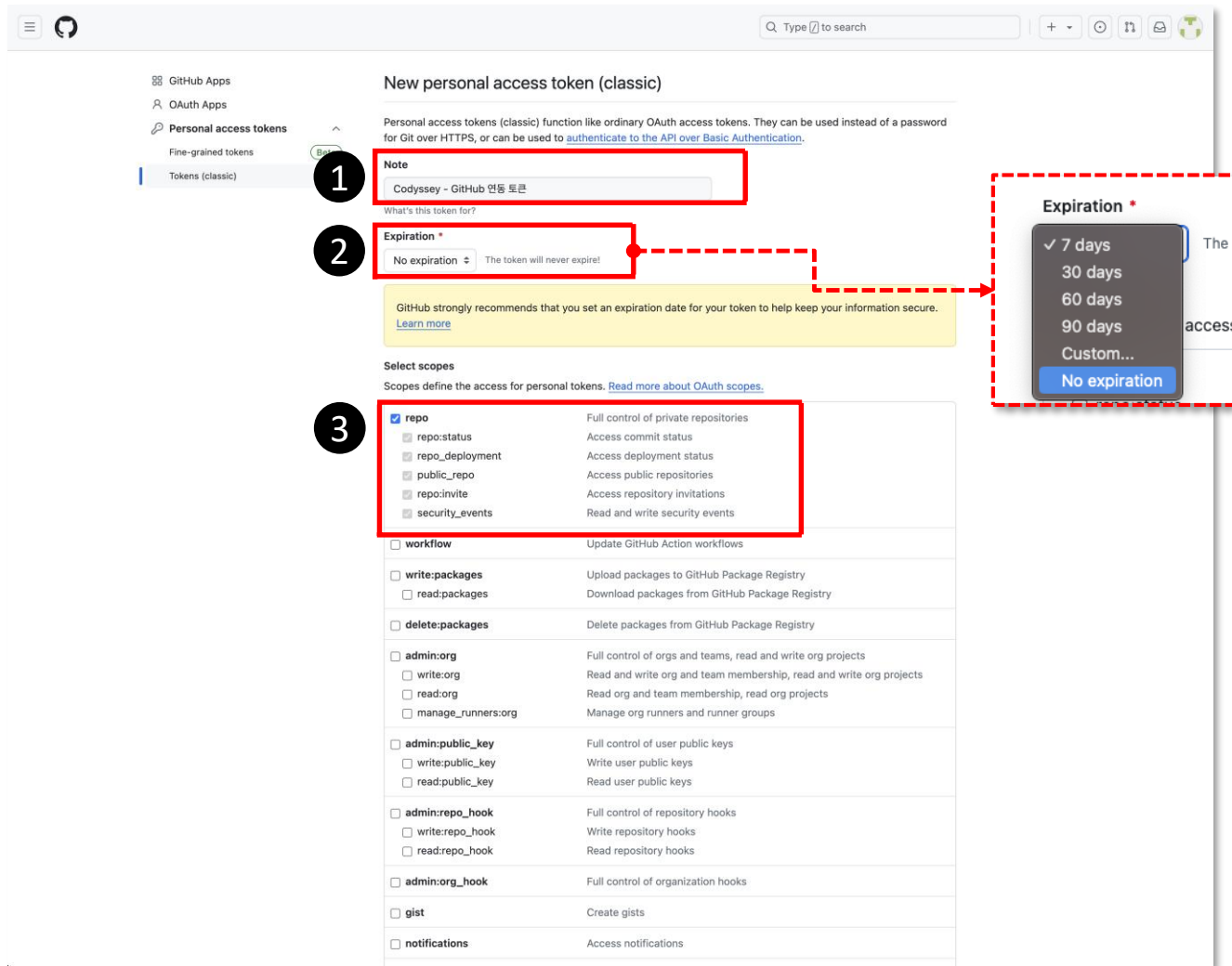
2) You can receive a token to connect with GitHub .



- 1 Click **[Personal access tokens]** .
- 2 Click **[Tokens (classic)]** .
- 3 Click **[Generate new token]** to open a drop-down button .
- 4 When you click [Generate new token (classic)], you will be taken to the page where you can issue a GitHub token .

### C) Connect with

2) You can receive a token to link with GitHub .



The screenshot shows the GitHub interface for creating a new personal access token. The page is titled 'New personal access token (classic)'. It includes a sidebar with navigation links for GitHub Apps, OAuth Apps, Personal access tokens, Fine-grained tokens, and Tokens (classic). The main content area has a 'Note' field, an 'Expiration' dropdown, a 'Select scopes' section, and a 'Generate token' button. Three numbered annotations are present: 1 points to the 'Note' field, 2 points to the 'Expiration' dropdown, and 3 points to the 'repo' scope checkbox. A red dashed box highlights the 'Expiration' dropdown, and a red dashed arrow points from the 'Expiration' dropdown to the 'No expiration' option in the dropdown menu.

**1** Note

**2** Expiration \*

**3** repo

Expiration \*

No expiration (The token will never expire)

7 days  
30 days  
60 days  
90 days  
Custom...  
No expiration

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo:deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input type="checkbox"/> workflow	Update GitHub Action workflows
<input type="checkbox"/> write:packages	Upload packages to GitHub Package Registry
<input type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input type="checkbox"/> delete:packages	Delete packages from GitHub Package Registry
<input type="checkbox"/> admin:org	Full control of orgs and teams, read and write org projects
<input type="checkbox"/> write:org	Read and write org and team membership, read and write org projects
<input type="checkbox"/> read:org	Read org and team membership, read org projects
<input type="checkbox"/> manage_runners:org	Manage org runners and runner groups
<input type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input type="checkbox"/> admin:repo_hook	Full control of repository hooks
<input type="checkbox"/> write:repo_hook	Write repository hooks
<input type="checkbox"/> read:repo_hook	Read repository hooks
<input type="checkbox"/> admin:org_hook	Full control of organization hooks
<input type="checkbox"/> gist	Create gists
<input type="checkbox"/> notifications	Access notifications

**1** [Note] Please write a title for the token .

Ex) *Codysey - GitHub*

**2** *integration token*  
[Expiration] is the field to set the expiration date for the token .

Set the expiration date to **No Expiration** .

**3** [repo] After checking the checkbox, go to the bottom of the page .

★ If there is a limit on the expiration date,  
**Codysey** There may be disadvantages when using the platform .



### C) Connect with

2) You can receive a token to link with GitHub .

<input type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input type="checkbox"/> admin:repo_hook	Full control of repository hooks
<input type="checkbox"/> write:repo_hook	Write repository hooks
<input type="checkbox"/> read:repo_hook	Read repository hooks
<input type="checkbox"/> admin:org_hook	Full control of organization hooks
<input type="checkbox"/> gist	Create gists
<input type="checkbox"/> notifications	Access notifications
<input type="checkbox"/> user	Update ALL user data
<input type="checkbox"/> read:user	Read ALL user profile data
<input type="checkbox"/> user:email	Access user email addresses (read-only)
<input type="checkbox"/> user:follow	Follow and unfollow users
<input type="checkbox"/> delete_repo	Delete repositories
<input type="checkbox"/> write:discussion	Read and write team discussions
<input type="checkbox"/> read:discussion	Read team discussions
<input type="checkbox"/> admin:enterprise	Full control of enterprises
<input type="checkbox"/> manage_runners:enterprise	Manage enterprise runners and runner groups
<input type="checkbox"/> manage_billing:enterprise	Read and write enterprise billing data
<input type="checkbox"/> read:enterprise	Read enterprise profile data
<input type="checkbox"/> audit_log	Full control of audit log
<input type="checkbox"/> read:audit_log	Read access of audit log
<input type="checkbox"/> codespace	Full control of codespaces
<input type="checkbox"/> codespace:secrets	Ability to create, read, update, and delete codespace secrets
<input type="checkbox"/> copilot	Full control of GitHub Copilot settings and seat assignments
<input type="checkbox"/> manage_billing:copilot	View and edit Copilot Business seat assignments
<input type="checkbox"/> project	Full control of projects
<input type="checkbox"/> read:project	Read access of projects
<input type="checkbox"/> admin:pgp_key	Full control of public user GPG keys
<input type="checkbox"/> write:pgp_key	Write public user GPG keys
<input type="checkbox"/> read:pgp_key	Read public user GPG keys
<input type="checkbox"/> admin:ssh_signing_key	Full control of public user SSH signing keys
<input type="checkbox"/> write:ssh_signing_key	Write public user SSH signing keys
<input type="checkbox"/> read:ssh_signing_key	Read public user SSH signing keys

**1**

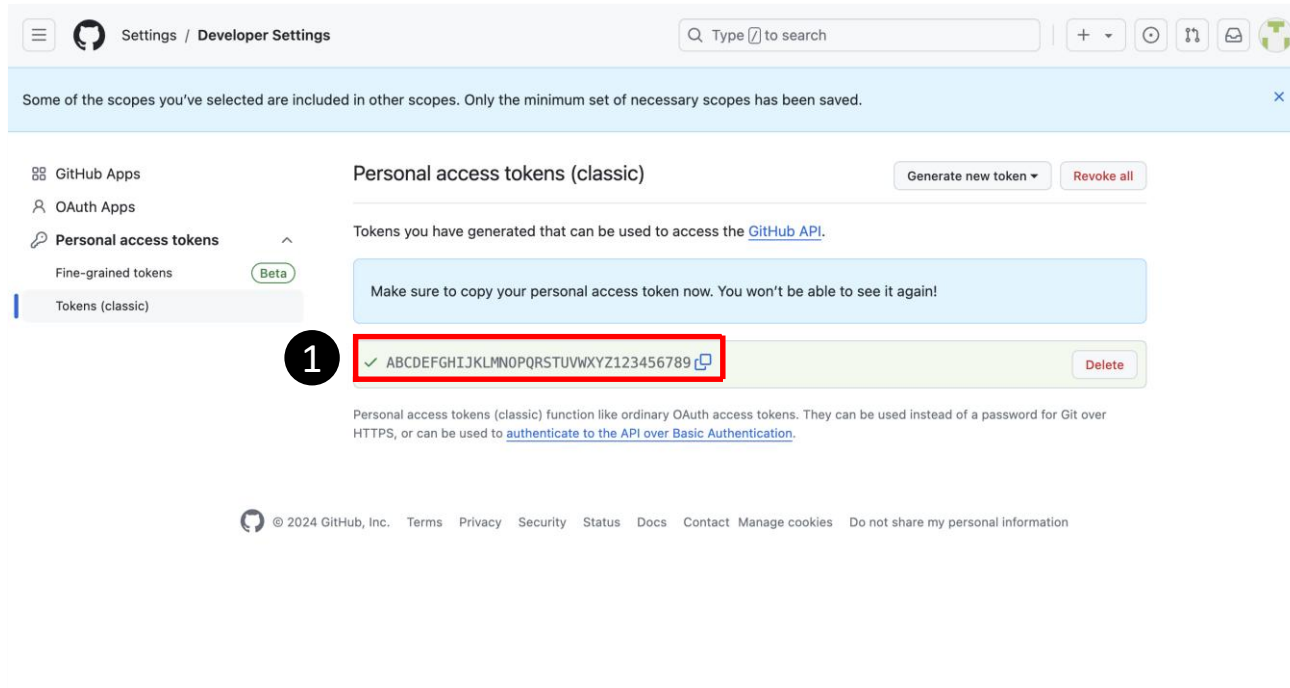
**1** After moving to the bottom of the page

**[Generate token]** Click the button to issue a token .



### C) Connect with

2) You can receive a token to connect with GitHub .



1 Copy  
[ Token ] and Codysey Go to  
the platform .

★ be displayed once, so it is  
recommended that you  
make a note of it or set it up  
right away .



### C) Connect with

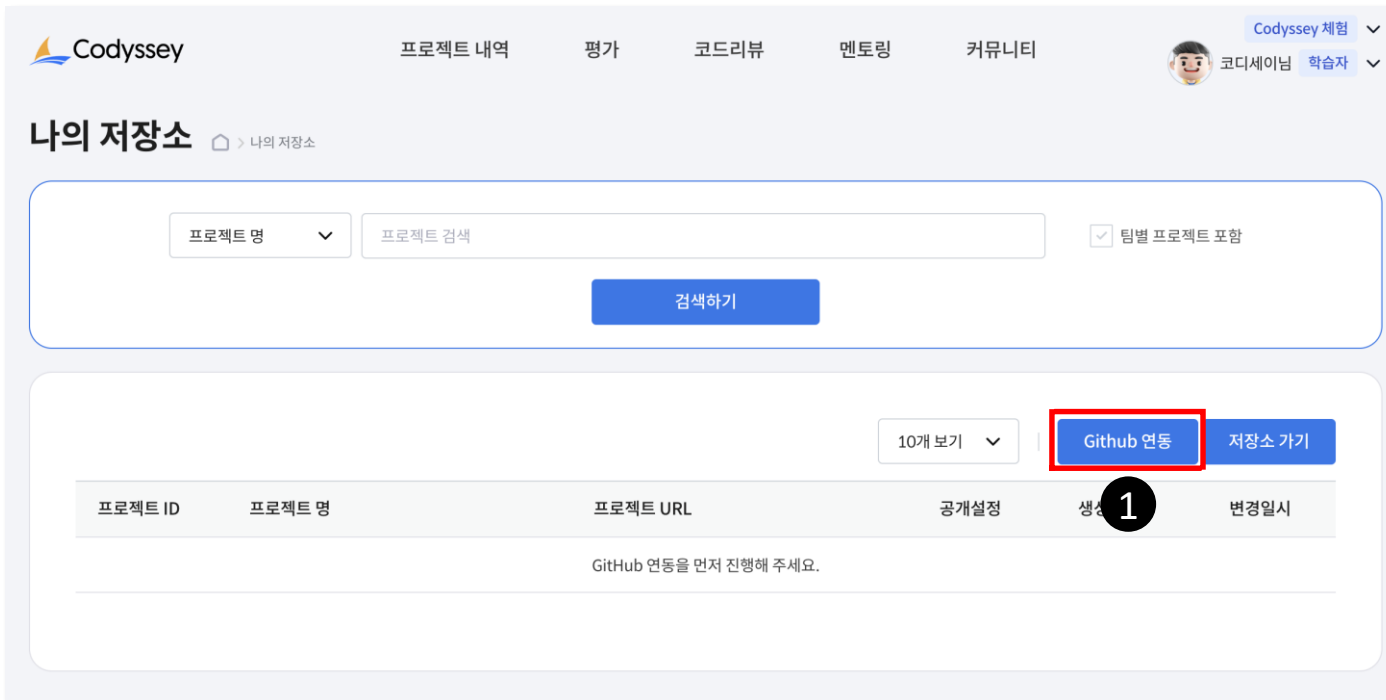
3) You can check GitHub connection and repository in [ **My Repository** ] .

- 1 Project History >  
Go to My Repository .

The screenshot shows the Codysey user dashboard. The top navigation bar includes the Codysey logo, a user profile icon, and several menu items: '프로젝트 내역' (Project History), '평가' (Evaluation), '코드리뷰' (Code Review), '멘토링' (Mentoring), and '커뮤니티' (Community). The '프로젝트 내역' menu item is highlighted with a red box. Below the navigation bar, the 'Overview' section displays the user's profile, level (3), point (805), and a progress bar. The '프로젝트' (Project) section shows 0 applications, 1 in progress, and 0 completed. The '멘토링' (Mentoring) section shows 0 requests, 1 scheduled, and 0 completed. The '코드리뷰' (Code Review) section shows 1 requested, 0 completed, and 2 completed. The '주간일정' (Weekly Schedule) section shows a calendar for the week of 2024.08.26 to 2024.09.01, with the date 08.31 highlighted in blue and 09.01 in red. The '나의 저장소' (My Repository) section is highlighted with a red box and a red arrow pointing to it from the '프로젝트 내역' menu item.

### C) Connect with

3) You can check GitHub connection and repository in [ **My Repository** ] .



The screenshot shows the '나의 저장소' (My Repository) page in the Codysey interface. At the top, there's a navigation bar with links like '프로젝트 내역', '평가', '코드리뷰', '멘토링', and '커뮤니티'. Below this, the page title '나의 저장소' is followed by a search bar with a dropdown for '프로젝트 명' and a search button '검색하기'. To the right of the search bar is a checkbox for '팀별 프로젝트 포함'. Below the search bar, there's a table with columns: '프로젝트 ID', '프로젝트 명', '프로젝트 URL', '공개설정', '생성', and '변경일시'. The '생성' column has a circled '1' next to it. To the right of the table, there's a 'Github 연동' button highlighted with a red box and a '저장소 가기' button. Below the table, there's a message: 'Github 연동을 먼저 진행해 주세요.'

- 1 [GitHub Link ] button will **connect** the learner's personal GitHub account to You can link . When you click the button, a pop-up window will appear allowing you to link GitHub .



### C) Connect with

3) You can check GitHub connection and repository in [ **My Repository** ] .

나의 저장소 > 나의 저장소

프로젝트명 프로젝트 검색 팀별 프로젝트 포함

검색하기

1건 10개 보기 Github 연동 저장소 가기

프로젝트 ID	프로젝트명	프로젝트 URL	공개설정	생성일시	변경일시
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### GitHub 연동

GitHub ID (Username) IA-Codysey

GitHub Token ABCDEFGHIJKLMNOPQRSTUVWXYZ123456789

닫기 등록/수정하기

- 1 Please enter your individual GitHub ID .
- 2 Please enter the [ **Token** ] copied from GitHub .
- 3 [ **Register / Edit** ] You can connect to GitHub by clicking the button .

#### ★ When linking with GitHub

✓ **Note**  
The

**GitHub ID** must be the learner's own account .

✓ You can check your **GitHub address in** the Learner Portal [ **My Repository** ] .





### C) Connect with

4) You can see a list of my Git repositories .

나의 저장소 > 나의 저장소

프로젝트명 ▼

프로젝트 검색

검색하기

1건 10개 보기 ▼

Github 연동

저장소 가기

프로젝트 ID	프로젝트명	프로젝트 URL	생성일시	변경일시
851350110	ia-codysey	<a href="https://github.com/[redacted]/ia-codysey.git">https://github.com/[redacted]/ia-codysey.git</a>	2024.09.03	2024.09.03

1

- 1 Clicking the [ **Go to Repository** ] button will take you to the learner's personal GitHub .
- 2 You can check the list of [GitHub repositories] .

# THANK YOU

*Code your Journey*