

# Connecting GitHub

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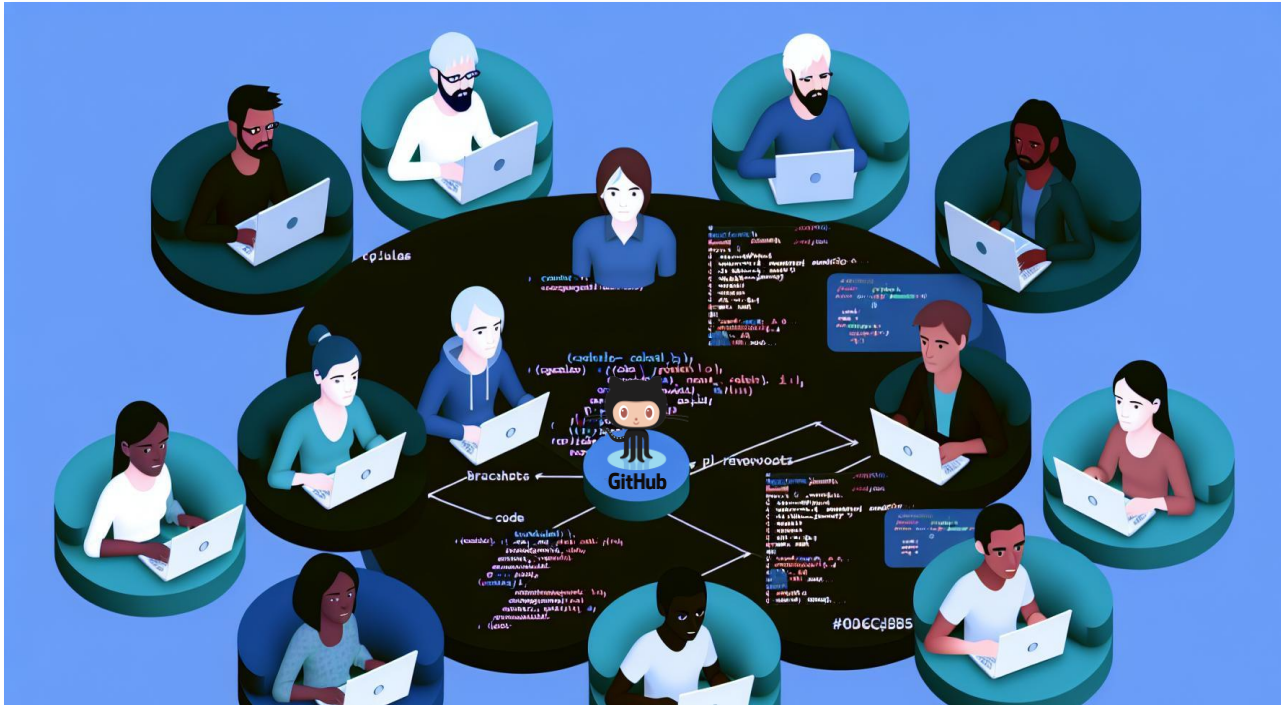
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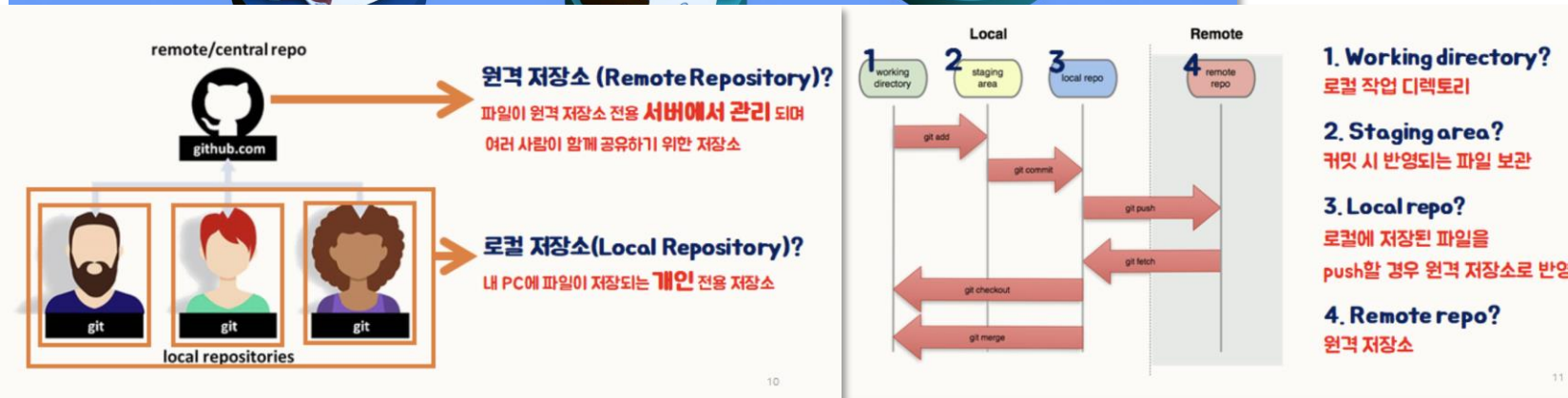
## A) What is GitHub?

: One of the most widely used **configuration management platforms** for software developers, allowing them to track and control changes.



## GitHub Basic Features

1. Remote Code Repository
2. Issue Tracking
3. Project Progress Tracking and Management
4. Code Change History Management
5. Useful for Collaborative Work among Developers





# Why Use GitHub?

Millions of developers around the world use it to host and share code and collaborate on projects.

It provides features and tools that help developers manage and track their code, including version control, bug tracking, and project management.

## GitHub 서비스



### GitHub Repository

A repository contains all of your code, your files, and each file's revision history.



### GitHub Projects

Projects is an adaptable, flexible tool for planning and tracking work on GitHub.



### GitHub Actions

GitHub Actions is a continuous integration and continuous delivery (CI/CD) platform that allows you to automate your build, test, and deployment pipeline.



### GitHub Discussions

GitHub Discussions is a collaborative communication forum for the community around an open source or internal project.



### GitHub Packages

GitHub Packages is a software package hosting service that allows you to host your software packages privately or publicly and use packages as dependencies in your projects.



### GitHub Copilot

GitHub Copilot is an AI coding assistant that helps you write code faster and with less effort, allowing you to focus more energy on problem solving and collaboration.



### GitHub Advanced Security (GHAS)

GitHub Advanced Security (GHAS) is a suite of security features provided by GitHub to enhance the security of your code.



### GitHub Codespace

A codespace is a development environment that's hosted in the cloud. You can customize your project for GitHub Codespaces by committing configuration files to your repository (often known as Configuration-as-Code), which creates a repeatable codespace configuration for all users of your project.

## A) What is GitHub?

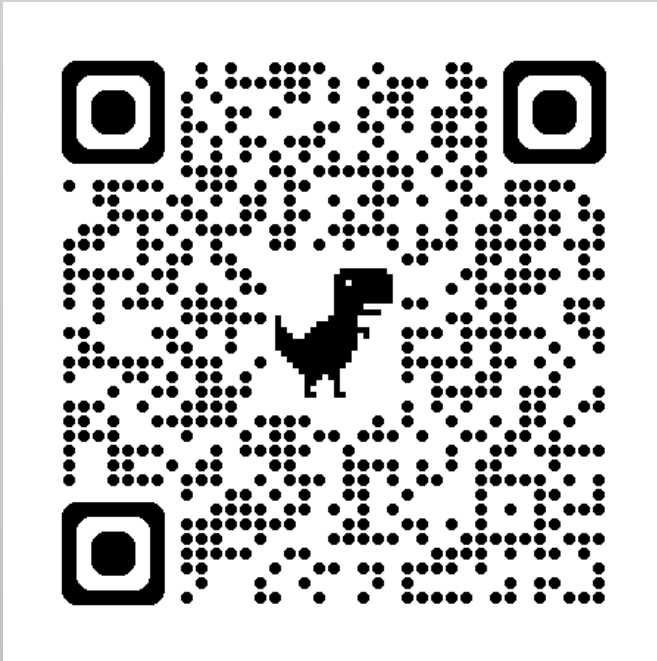


*"If Git is an app for recording videos, think of GitHub as the YouTube platform."*

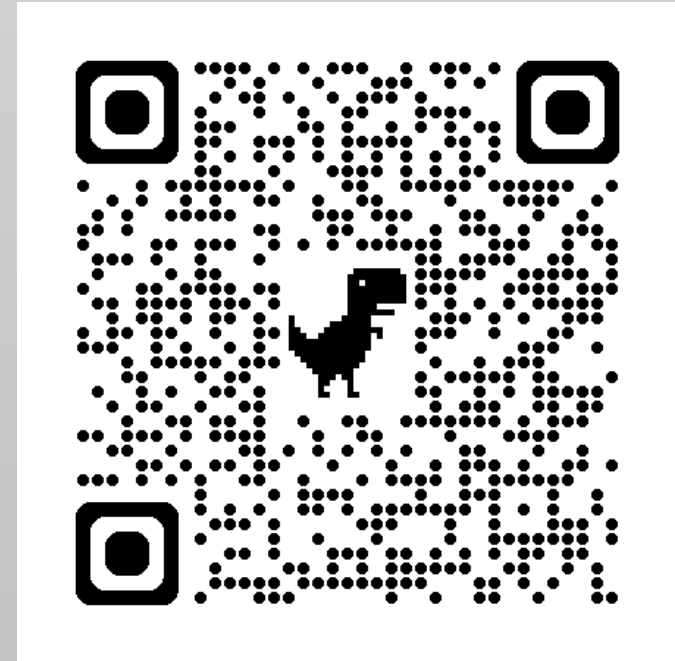
- 알박한 코딩사전(Korean YouTuber) -

### GitHub how-to videos

(Use YouTube Subtitles)



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



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

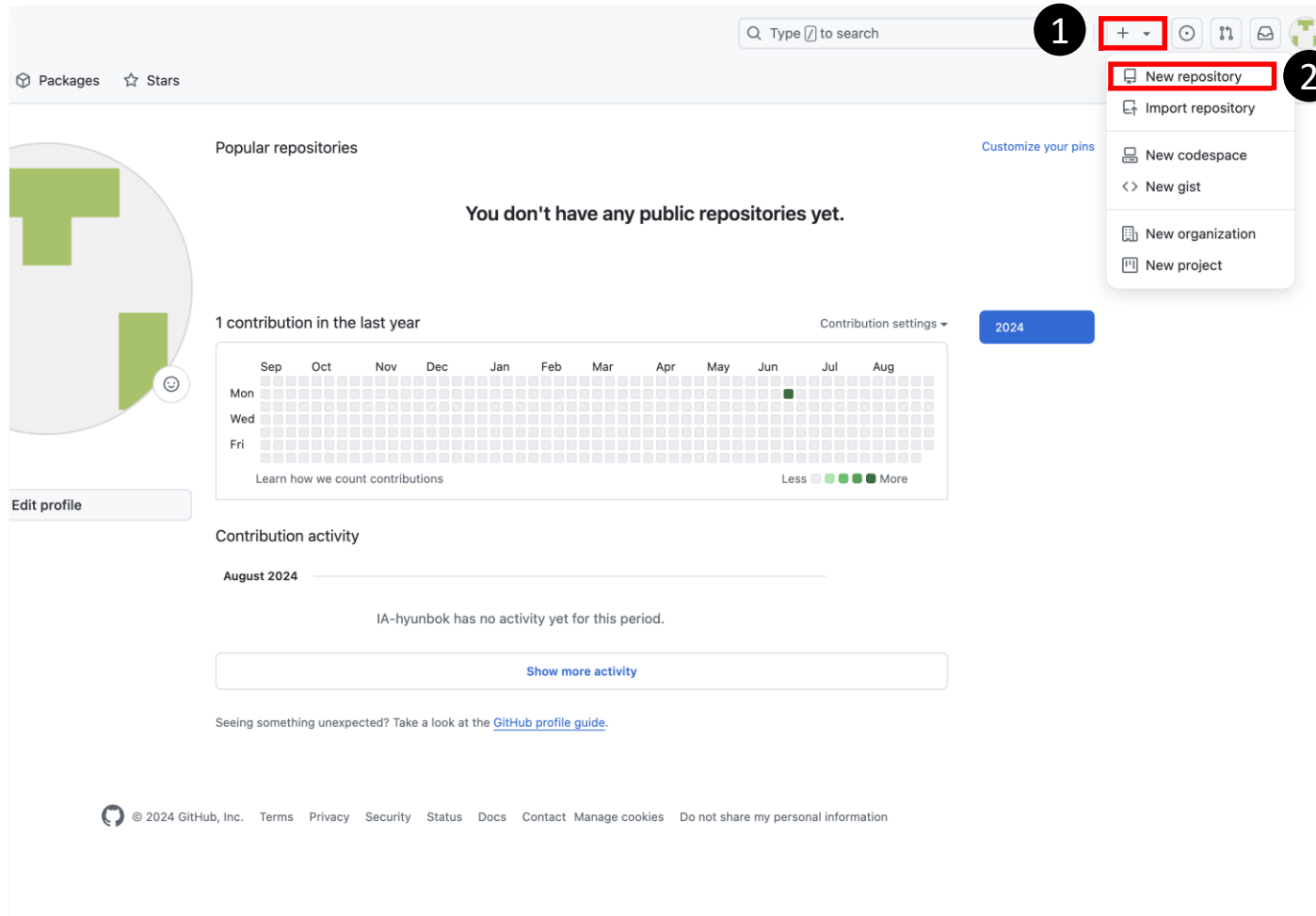
※ You need to sign up to use GitHub. ※

Please proceed with the registration.



## B) How to Use GitHub

### 1) How to Create a Repository



- 1 Go to <https://github.com> first.  
Log in with your personal **GitHub** account and click the **[+]** dropdown button at the top-right corner.
- 2 Click **[new repository]**.



### B) How to Use GitHub


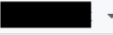
#### 1) How to Create a Repository

### 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 \*

ia-codysey is available.

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

Description (optional)

☒  **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐  **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

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

Choose a 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](#).

📘 You are creating a public repository in your personal account.

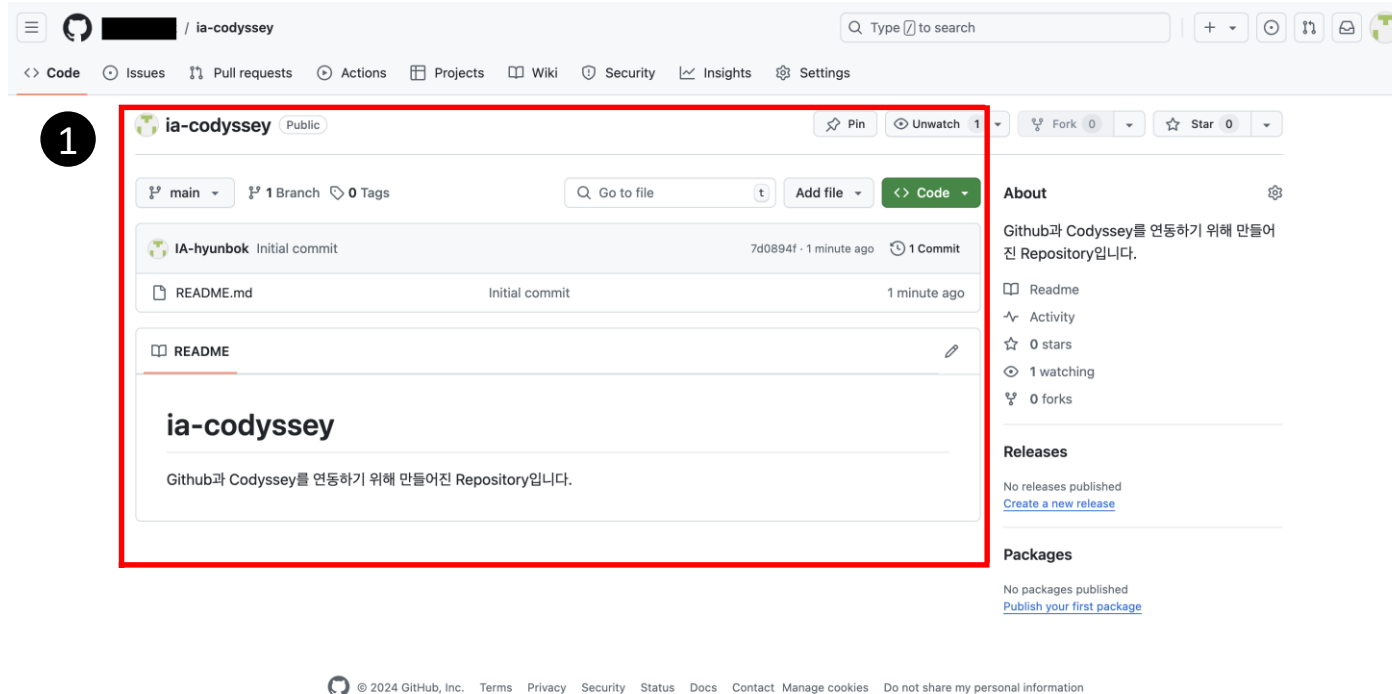
Create repository

- 1 Enter the name of the repository.
  - 2 This is a field to describe what the repository is about. (Optional)
  - 3 You can set the visibility of the repository to others.  
To use the "Codysey" platform, select **[Public]**.
  - 4 Once all the settings are complete, click the **[Create repository]** button to finalize the creation of the repository.
- ✓ This is the section where you can configure additional information about the repository.  
Please explore it on your own.



### B) How to Use GitHub

#### 1) How to Create a Repository



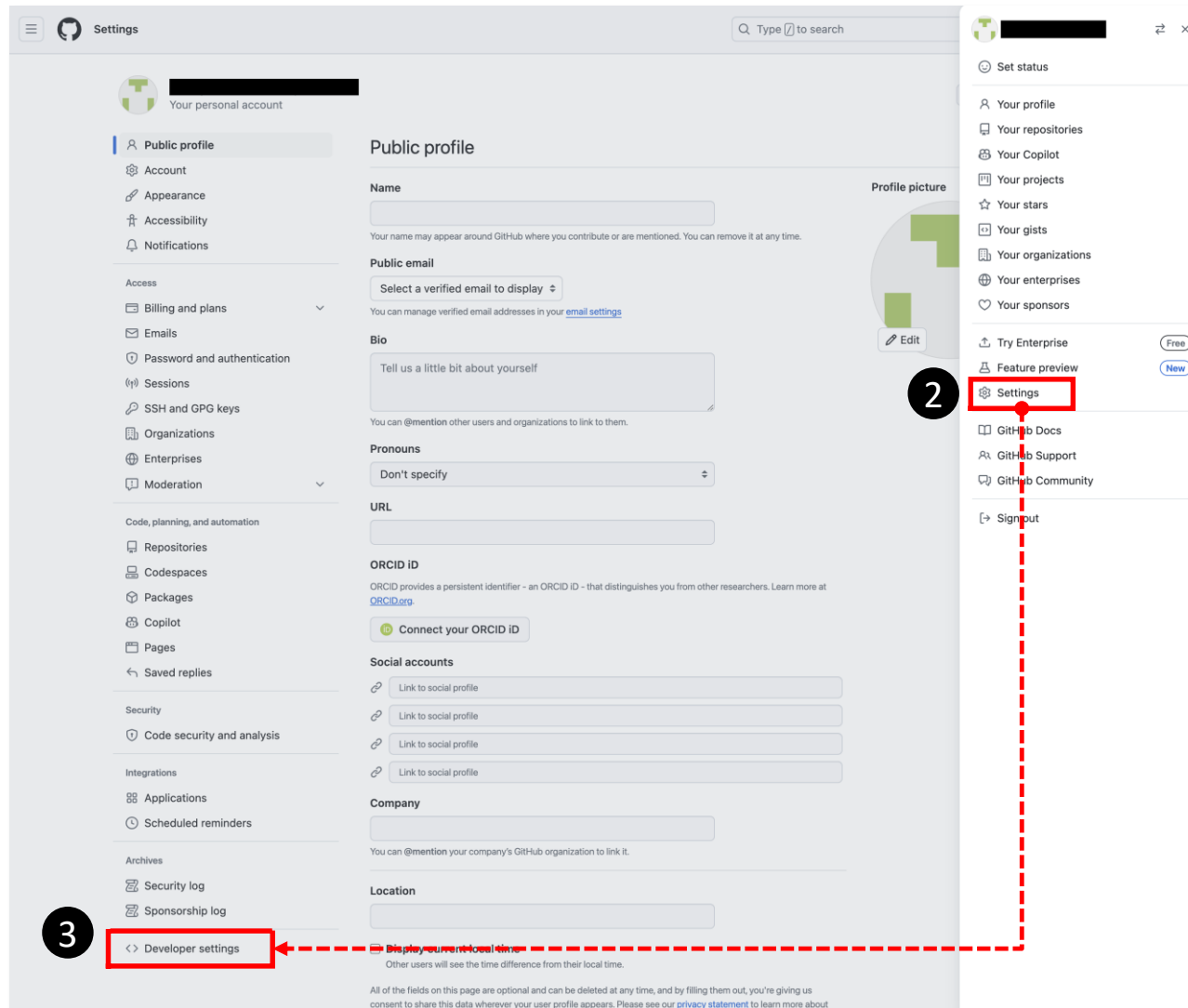
1 You can view the repository you created.





### C) Connecting with Codysey

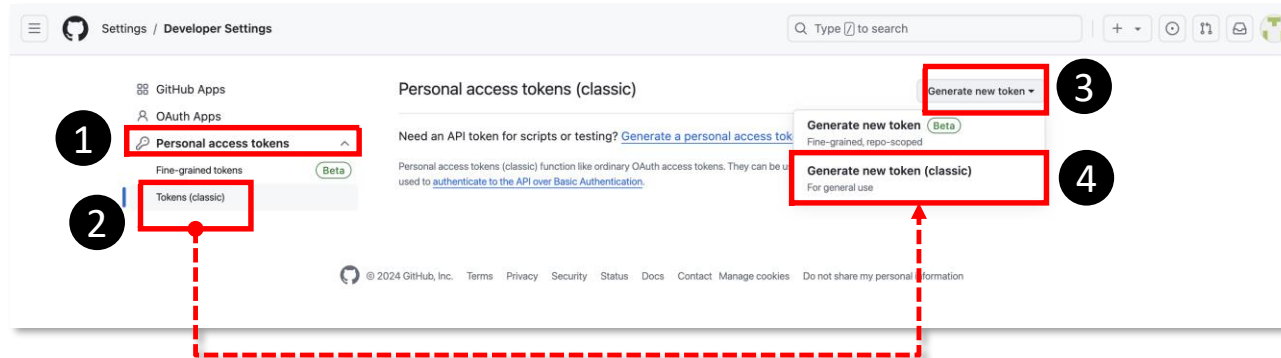
1) You can issue a token to connect Codysey with GitHub.



- 1 Go to <https://github.com>.  
Log in with your personal GitHub account and click your profile at the top-right corner.
- 2 Click the **[Settings]** button.  
This will take you to a screen like the one shown.
- 3 Click the **[Developer settings]** button at the very bottom of the screen.

### C) Connecting with Codysey

2) You can generate a GitHub token.



1 Click **[Personal access tokens]**.

2 Click **[Tokens (classic)]**.

3 Click **[Generate new token]** to open the dropdown menu.

4 Click **[Generate new token (classic)]** to navigate to the GitHub token generation page.



### C) Connecting with Codysey

2) You can generate a GitHub token.

The screenshot shows the GitHub 'New personal access token (classic)' page. Three steps are annotated with red boxes and numbers:

- 1** The 'Note' field is highlighted with a red box. The text 'Codysey - GitHub 연동 토큰' is entered.
- 2** The 'Expiration' dropdown is highlighted with a red box. The text 'No expiration' is selected. A red dashed arrow points from this box to a callout menu.
- 3** The 'repo' checkbox under 'Select scopes' is highlighted with a red box. The 'repo' checkbox is checked.

The callout menu for 'Expiration' shows the following options: 7 days, 30 days, 60 days, 90 days, Custom..., and No expiration (selected).

The 'Select scopes' section shows the following options:

- ☒ **repo** Full control of private repositories
  - ☒ repo:status Access commit status
  - ☒ repo:deployment Access deployment status
  - ☒ public\_repo Access public repositories
  - ☒ repo:invite Access repository invitations
  - ☒ security\_events Read and write security events
- ☐ **workflow** Update GitHub Action workflows
- ☐ **write:packages** Upload packages to GitHub Package Registry
  - ☐ read:packages Download packages from GitHub Package Registry
- ☐ **delete:packages** Delete packages from GitHub Package Registry
- ☐ **admin:org** Full control of orgs and teams, read and write org projects
  - ☐ write:org Read and write org and team membership, read and write org projects
  - ☐ read:org Read org and team membership, read org projects
  - ☐ manage\_runners:org Manage org runners and runner groups
- ☐ **admin:public\_key** Full control of user public keys
  - ☐ write:public\_key Write user public keys
  - ☐ read:public\_key Read user public keys
- ☐ **admin:repo\_hook** Full control of repository hooks
  - ☐ write:repo\_hook Write repository hooks
  - ☐ read:repo\_hook Read repository hooks
- ☐ **admin:org\_hook** Full control of organization hooks
- ☐ **gist** Create gists
- ☐ **notifications** Access notifications

- 1** In **[Note]**, write a title for the token.  
e.g., Codysey-GitHub Connection Token
- 2** **[Expiration]** is the field where you set the token's expiration date.  
Set the expiration date to **[No Expiration]**.
- 3** Select the **[repo]** checkbox and scroll to the bottom of the page.

★ If there are restrictions on the expiration date, it may cause issues when using the Codysey platform.



### C) Connecting with Codysey

2) You can generate a GitHub token.

- 1 Scroll to the bottom of the page and click the **[Generate token]** button to issue the token.

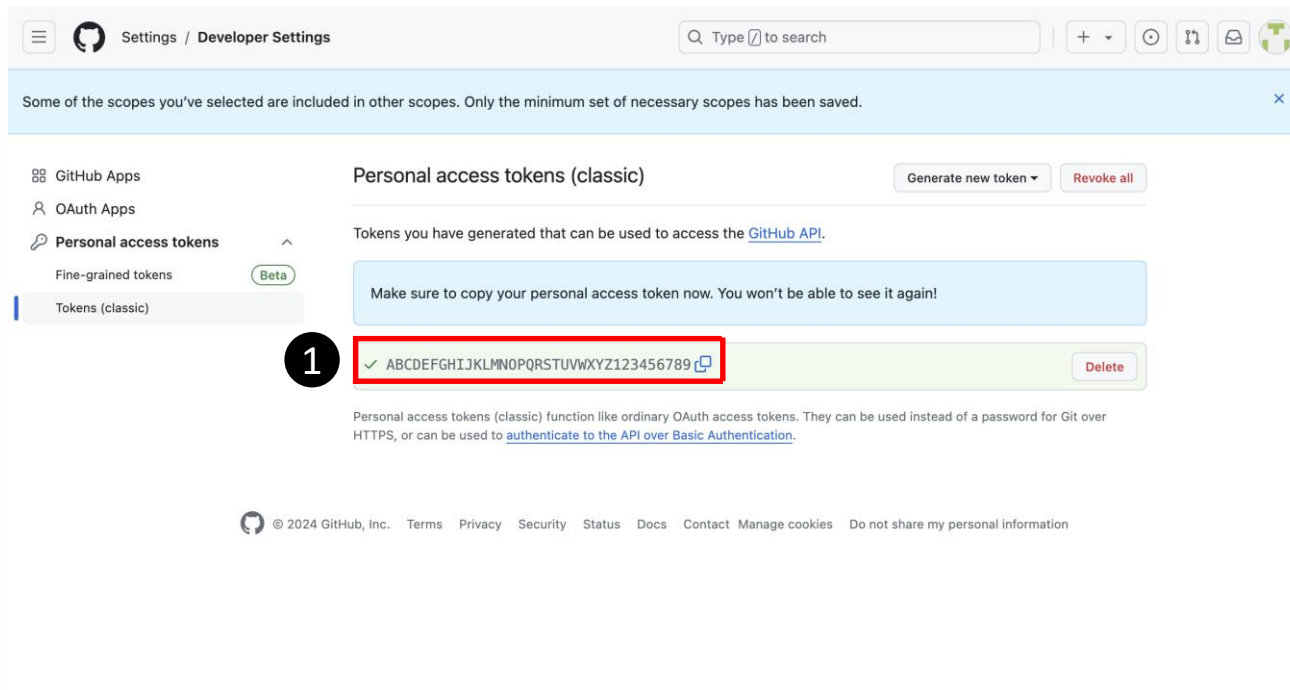
<input type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input type="checkbox"/> admin:repo_hook	Full control of repository hooks
<input type="checkbox"/> 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:gpg_key	Full control of public user GPG keys
<input type="checkbox"/> write:gpg_key	Write public user GPG keys
<input type="checkbox"/> read:gpg_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 **Generate token** Cancel



### C) Connecting with Codysey

2) You can generate a GitHub token.



1 Copy the **[token]** and proceed to the Codysey platform.

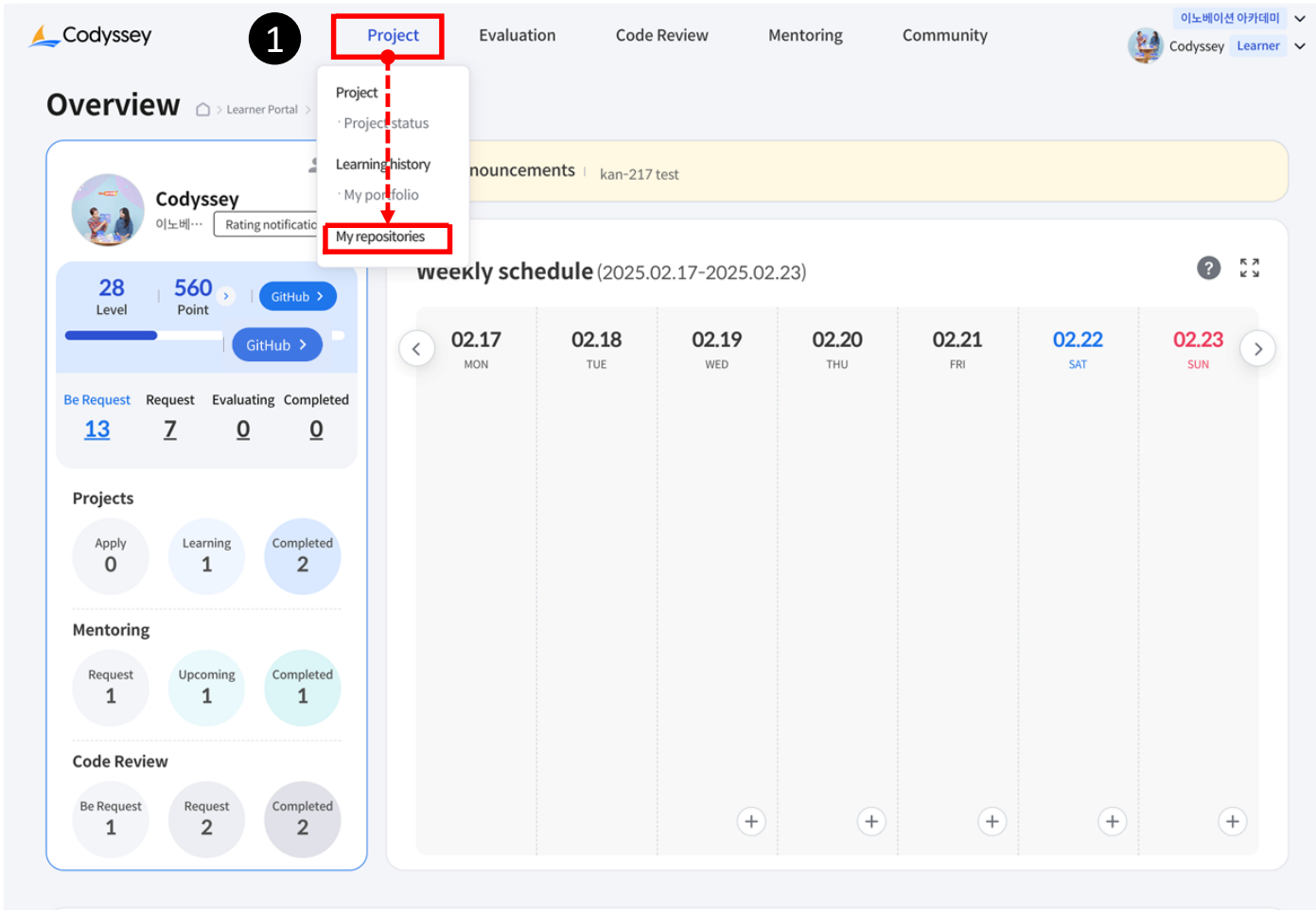
★ Since the issued token is displayed only once, it is recommended to either make a note of it or configure it immediately.



### C) Connecting with Codysey

3) In **[My Repositories]**, you can check the GitHub connection and view your repositories.

- 1 Go to  > **Project History** > **My Repositories**.



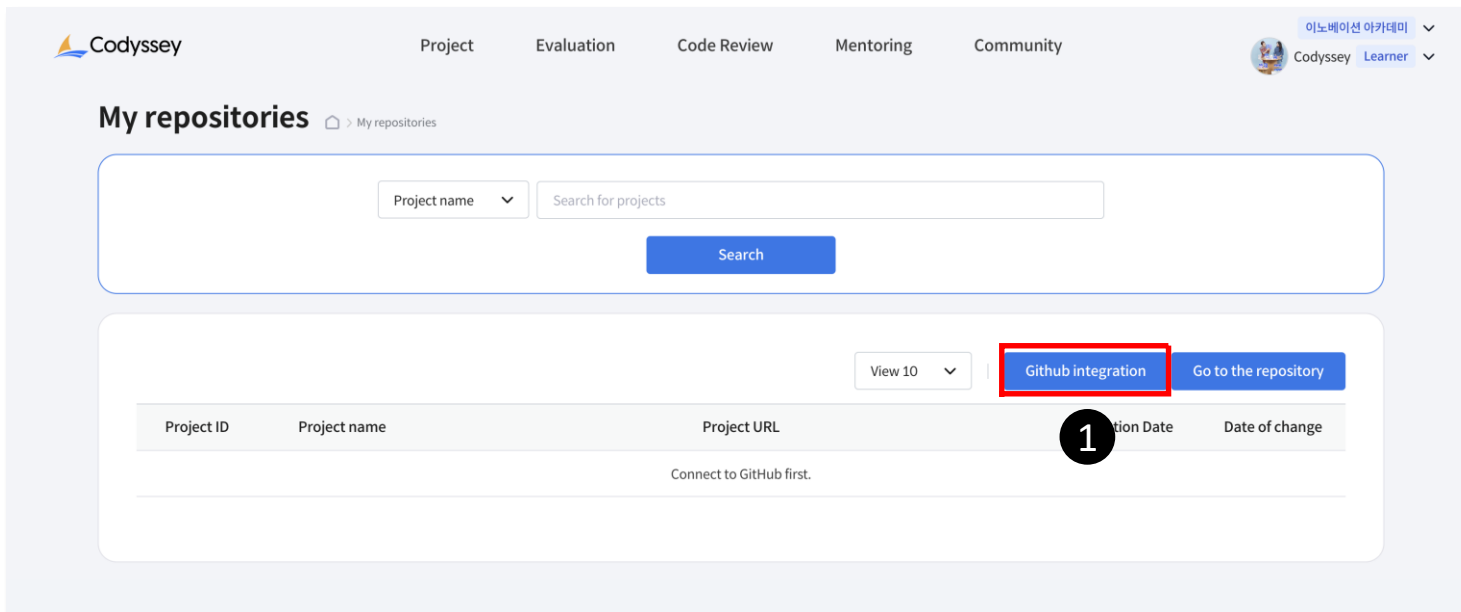
The screenshot displays the Codysey user interface. At the top, a navigation bar includes the Codysey logo, a 'Project' dropdown menu (highlighted with a red box and a red arrow pointing to 'My repositories'), and links for 'Evaluation', 'Code Review', 'Mentoring', and 'Community'. The user's profile '이노베이션 아카데미' is shown on the right. The main content area is titled 'Overview' and features a sidebar with user statistics (Level 28, Point 560) and project/mentoring/code review counts. The main panel shows a 'weekly schedule' for the week of 2025.02.17-2025.02.23, with days from Monday to Sunday. The 'My repositories' option in the 'Project' dropdown is highlighted with a red box.



### C) Connecting with Codysey

3) In **[My Repositories]**, you can check the GitHub connection and view your repositories.

- 1 Click the **[Connect GitHub]** button to link your personal GitHub account. A popup window for connecting to GitHub will appear upon clicking the button.





### C) Connecting with Codysey

3) In **[My Repositories]**, you can check the GitHub connection and view your repositories.

The screenshot shows the 'My repositories' interface. A modal titled 'GitHub integration' is open in the foreground. It contains two input fields: 'GitHub ID (Username)' with the value 'IA-Codysey' and 'GitHub Token' with a long alphanumeric string. Below these fields are two buttons: 'Close' and 'Register/Edit'. Red rectangular boxes highlight the 'GitHub ID' field (labeled with a circled 1), the 'GitHub Token' field (labeled with a circled 2), and the 'Register/Edit' button (labeled with a circled 3). The background shows a table with columns for 'Project ID', 'Project name', 'Creation Date', and 'Date of change', and buttons for 'View 10', 'Github integration', and 'Go to the repository'.

- 1 Enter your personal GitHub ID.
- 2 Paste the **[token]** copied from GitHub.
- 3 Click the **[Register/Modify]** button to connect GitHub.

#### ★ Notes for Connecting GitHub:

- ✓ The **GitHub ID** must be your own account.
- ✓ The GitHub URL can be found in the **[My Repositories]** section of the learner portal.





### C) Connecting with Codysey

3) In **[My Repositories]**, you can check the GitHub connection and view your repositories.

1 Click the **[Go to Repository]** button to navigate to your personal GitHub.

2 You can view the list of **[GitHub Repositories]**.

#### My repositories > My repositories

Project name ▼

Search for projects

Search

2Items

View 10 ▼

Github integration

Go to the repository

1

Project ID	Project name	Project URL	Creation Date	Date of change
851350110	ia-codysey	<a href="https://github.com/IA-hyunbok/ia-codysey.git">https://github.com/IA-hyunbok/ia-codysey.git</a>	2024.09.03	2024.09.04

1

2

# THANK YOU

*Code your Journey*