


# AIDD 30-Day Challenge — Task 6 Submission

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 **Time:** 1 Hour | **Marks:** 10 | **Deadline:** 48 Hours

 **Class Slot:** Friday — 6:00 PM to 9:00 PM

**Instructor:** Sir Hamzah Syed

## Task Objective

Students will connect GitHub MCP Server with the Google Gemini CLI using the Hosted (Remote) MCP Server.

This method does not require Docker or MCP installation - it's the simplest method.

After completing this task, AI will be able to read repositories and interact with GitHub.

## Steps to Complete Task 6 (Easy Method)

### ◆ Step 1 - Create Your GitHub Personal Access Token (PAT)

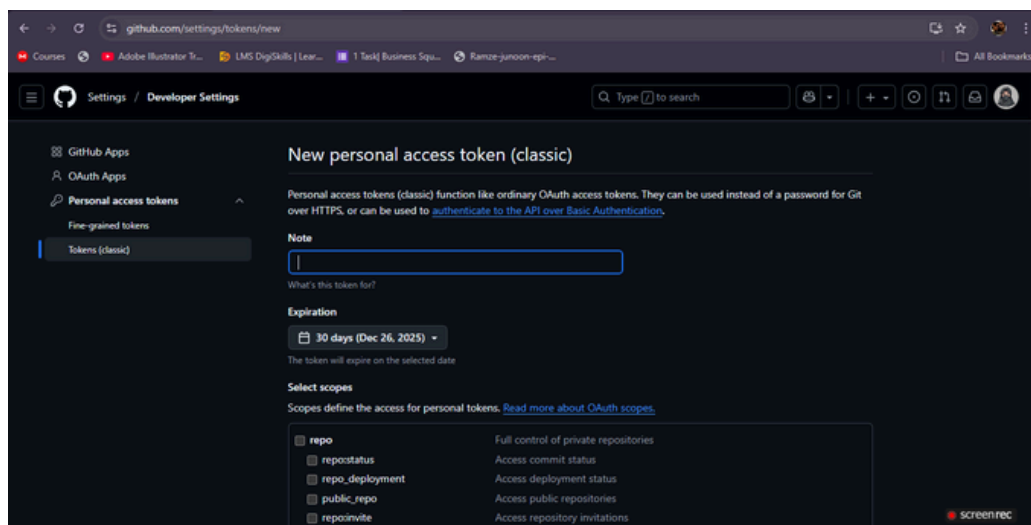
Open this link:

<https://github.com/settings/tokens>

Generate a token with:

✓ repo (Read & Write)

Copy the token and save it safely.





## Token Name

### New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

#### Note

Gemini\_CLI\_Access\_Token

What's this token for?



## Some Permissions

### Select scopes

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

- |   |   |
|---|---|
| <input 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 type="checkbox"/> security_events            | Read and write security events          |
| <hr/>   |   |
| <input type="checkbox"/> user                       | Update ALL user data                    |
| <input checked="" type="checkbox"/> read:user       | Read ALL user profile data              |
| <input checked="" type="checkbox"/> user:email      | Access user email addresses (read-only) |
| <input type="checkbox"/> user:follow                | Follow and unfollow users               |
| <hr/>   |   |
| <input checked="" type="checkbox"/> delete_repo     | Delete repositories                     |

## ✓ Successfully Generate Token

### Personal access tokens (classic)

Generate new token ▾

Tokens you have generated that can be used to access the [GitHub API](#).

🔔 Make sure to copy your personal access token now. You won't be able to see it again!

✓ ghp\_ [REDACTED]

Delete

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

## ◆ Step 2 - Store Your Token Securely

Do NOT put the token directly into JSON.



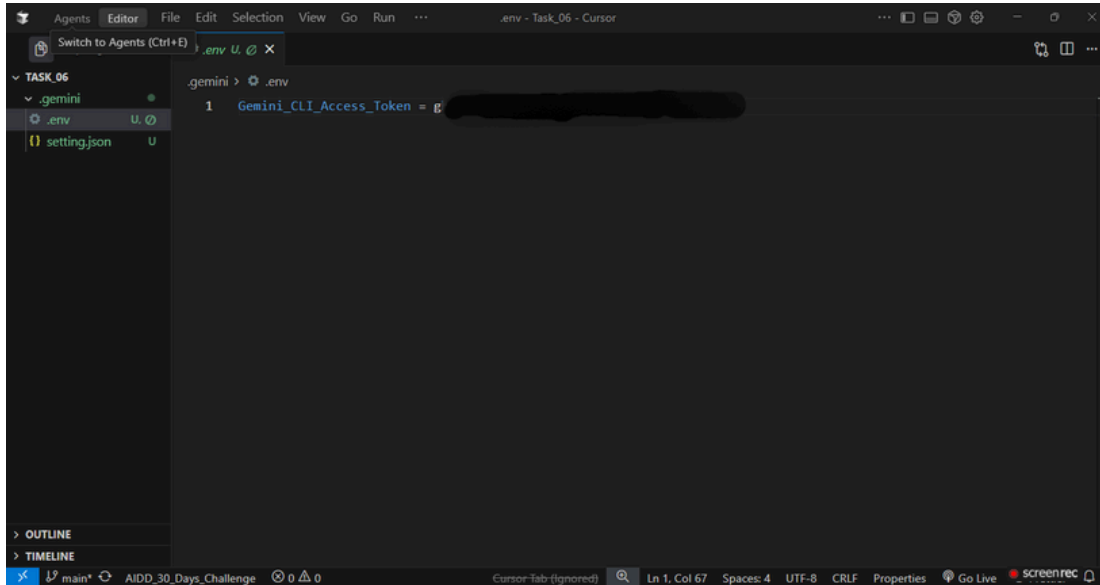
Create this file:

```
bash
```

Copy code

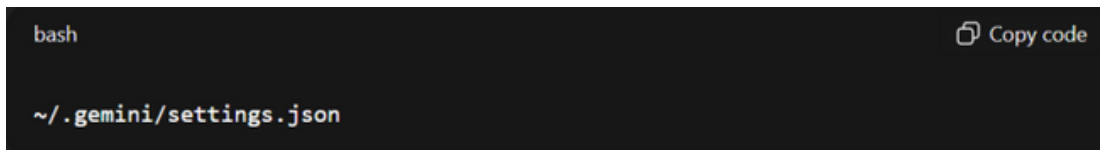
```
~/.gemini/.env
```

+ ADD

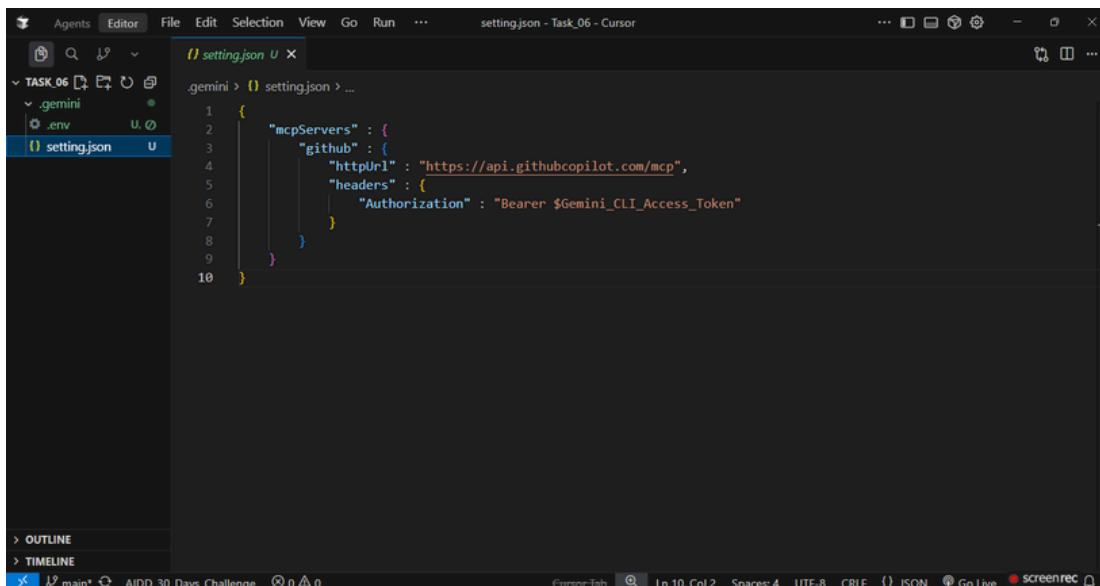


## ◆ Step 3 - Configure Gemini to Use GitHub MCP Server

📁 Open or create:



📄 Paste this:



- ✓ No installation required
- ✓ Token auto-loads from .env
- ✓ Fast & easiest MCP setup

## ◆ Step 4 - Restart Gemini CLI

```
nginx
```

```
gemini
```

Copy code

## ◆ Step 5 - Verify Connection

```
bash
```

```
/mcp list
```

Copy code

## 🔧 Tools List

```
Gemini - Task_06
```

```
> GEMINI
```

Tips for getting started:

1. Ask questions, edit files, or run commands.
2. Be specific for the best results.
3. Create GEMINI.md files to customize your interactions with Gemini.
4. /help for more information.

```
> /mcp list
```

Configured MCP servers:

- github - Ready (40 tools, 2 prompts)

Tools:

- add\_comment\_to\_pending\_review
- add\_issue\_comment
- assign\_copilot\_to\_issue
- create\_branch
- create\_or\_update\_file
- create\_pull\_request
- create\_repository
- delete\_file
- fork\_repository
- get\_commit
- get\_file\_contents
- get\_label
- get\_latest\_release

screenrec

```
Gemini - Task_06
```

- get\_me
- get\_release\_by\_tag
- get\_tag
- get\_team\_members
- get\_teams
- issue\_read
- issue\_write
- list\_branches
- list\_commits
- list\_issue\_types
- list\_issues
- list\_pull\_requests
- list\_releases
- list\_tags
- merge\_pull\_request
- pull\_request\_read
- pull\_request\_review\_write
- push\_files
- request\_copilot\_review
- search\_code
- search\_issues
- search\_pull\_requests
- search\_repositories
- search\_users
- sub\_issue\_write
- update\_pull\_request
- update\_pull\_request\_branch

Prompts:

- AssignCodingAgent
- IssueToFixWorkflow

Using: 1 MCP server

```
> Type your message or @path/to/file
```

screenrec

## ◆ Step 6 - Test the Server


```
> List my GitHub repositories

+ I can list repositories if you provide your GitHub username. Alternatively, I can try to fetch your username using the get_me tool if you are authenticated with GitHub. Would you like me to try that?

> get_me

✓ get_me (github MCP Server) {}

{"login":"tayyabahussain98","id":166198804,"profile_url":"https://github.com/tayyabahussain98","avatar_url":"https://avatars.githubusercontent.com/u/166198804?v=4","details":{"name":"Tayyaba Hussain","hireable":true,"bio":"Web Developer, AI, Metaverse 3.0 Student.", "public_repos":36, "public_gists":0, "followers":3, "following":25, "created_at":"2024-04-06T04:45:55Z", "updated_at":"2025-11-24T04:21:43Z"}}
```

 Gemini shows your repos → MCP is fully connected ✓

```
Gemini - Task_06

+ Here are your GitHub repositories:

* Simple-Calculator: This is a Simple Calculator (JavaScript)
* Header-About: Second Next.js Project (TypeScript)
* ATM-Machine: This is an ATM Machine. (JavaScript)
* To-Do-List: This is a To Do List. (JavaScript)
* Hackathon_Milestones (HTML)
* Chatbot (Python)
* Build_Compose_and_Decorate_A_Complete_Traditional_OOP_Practice_Series (Python)
* Quiz: This is a Quiz Project. (JavaScript)
* CLI-Number-Guessing: This is a CLI based Number Guessing Game (JavaScript)
* Ramadan_Coding_Nights_With_Sir_Asharib_Ali (Python)
* Currency-Converter: This is a Currency Converter. (JavaScript)
* AI_Assistant_Demo (Python)
* Count-Down-Timer: This is a Count Down Timer Project. (JavaScript)
* Multi_Agent_System (Python)
* Translator_Agents (Python)
* Password-Strength-Checker (Python)
* Canva_Hero_Section: Build Canva Hero Section with Gemini CLI (HTML)
* Python-Assignments-04 (Python)
* Python-Daily-Challenge (Python)
* Link-Button: Third Next.js Project (TypeScript)
* Personal-Library-Manager (Python)
* Greeting_Assistant (Python)
* Word-Counter: this is the Word Counter. (JavaScript)
* 48-Exercises-with-TypeScript-and-Node.js (TypeScript)
* University_Management_System (Python)
* A100_30_Days_Challenge (Python)
* Adventure-Game: This is a Console Base Game. (JavaScript)
* Hello-World: First Next.js Project (TypeScript)
* Secure_Data_Encryption_App (Python)
* Tool_Calling (Python)

Using: 1 MCP server
```

## Submission Requirements

Students must submit:

✓ Screenshot of:

- ✓ .env file (token blurred)
- ✓ settings.json
- ✓ /mcp list result
- ✓ GitHub repo list output