

AI-Driven Development - 30-Day Challenge-Task-6

Task 6 - GitHub × MCP Integration (Hosted Method)

🕒 Deadline: 48 Hours

Slot:(Friday 6–9 PM)

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/personal-access-tokens/new>

Generate a token with:

✓ repo (Read & Write)


Copy the token and save it safely.

◆ Step 2 - Store Your Token Securely

Do NOT put the token directly into JSON.

Create this file:


```
bash
```

 Copy code

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

Add:

ini


 Copy code

```
GITHUB_MCP_PAT=your_token_here
```

◆ Step 3 - Configure Gemini to Use GitHub MCP Server

Open or create:


bash

 Copy code

```
~/gemini/settings.json
```

Paste this:

json


 Copy code

```
{
  "mcpServers": {
    "github": {
      "httpUrl": "https://api.githubcopilot.com/mcp/",
      "headers": {
        "Authorization": "Bearer $GITHUB_MCP_PAT"
      }
    }
  }
}
```

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

◆ Step 4 - Restart Gemini CLI

nginx

 Copy code


```
gemini
```

◆ Step 5 - Verify Connection

Run:

```
bash

/mcp list
```

 Copy code

Expected:

● github — Ready (90+ tools)

If you see this → SUCCESS

◆ Step 6 - Test the Server

Ask:

“List my GitHub repositories”

If Gemini shows your repos → MCP is fully connected ✓

Troubleshooting

✗ Invalid Token

→ Create a new PAT


→ Must include: repo scope

✗ settings.json Error

Run:

```
bash


cat ~/.gemini/settings.json | jq .
```

 Copy code

✗ MCP not connecting

Run:

nginx

 Copy code

```
gemini --debug "hello"
```

Submission Requirements

Students must submit:

✓ Screenshot of:

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

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