

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

Task 6 - GitHub × MCP Integration (Hosted Method)

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 **Deadline: 48 Hours**

Slot:(Friday 6–9 PM)

Steps to Complete Task 6 (Easy Method)

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

 **repo (Read & Write)**

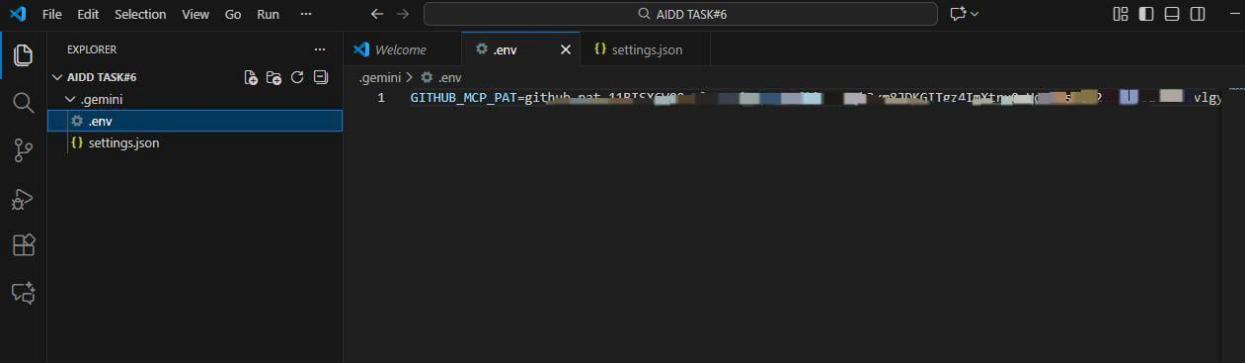
Copy the token and save it safely.

 **DONE:**

Step 2 - Store Your Token Securely

Do NOT put the token directly into JSON.

 **DONE:**



The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure with a folder named 'AIDD TASK#6' containing a '.gemini' folder and an '.env' file, which is currently selected. The Editor tab on the right shows a single line of code: 'GITHUB_MCP_PAT=github_pat_11RPTSVQ...'. This indicates that the GitHub Personal Access Token has been stored securely in the environment variable 'GITHUB_MCP_PAT' within the '.env' file.

◆ Step 3 - Configure Gemini to Use GitHub MCP Server

✓ DONE:



The screenshot shows the VS Code interface with the settings.json file open in the center editor tab. The file contains the following JSON configuration:

```
1  {
2    "mcpServers": [
3      "github": {
4        "httpUrl": "https://api.githubcopilot.com/mcp/",
5        "headers": {
6          "Authorization": "Bearer $GITHUB_MCP_PAT"
7        }
8      }
9    ]
10 }
```

◆ Step 4 - Restart Gemini CLI

✓ DONE:



The screenshot shows the Gemini CLI terminal window. It displays the following text:

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.

You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory.

Using: 1 MCP server

> Type your message or @path/to/file

~ no sandbox (see /docs) auto

❖ Step 5 - Verify Connection

❖ DONE:



```
 Gemini - user

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
- get_me
- get_release_by_tag
- get_tag
- get_team_members
- get_teams
- issue_read
- issue_write
- list_branches
- list_commits

Gemini - user
- get_latest_release
- 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_file
- 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

You are running Gemini CLI in your home directory. It is recommended to run in a project-specific directory.

Using: 1 MCP server
> Type your message or @path/to/file
~ no sandbox (see /docs) auto
```

◆ Step 6 - Test the Server

❖ DONE:



```
list my GitHub repositories
I can list your GitHub repositories by first getting your authenticated GitHub username and then searching for repositories owned by that username.
get_me (github MCP Server) {}

{"login":"SyedaQudsiaAli","id":170229590,"profile_url":"https://github.com/SyedaQudsiaAli","avatar_url":"https://avatars.githubusercontent.com/u/170229590?v=4","det
ails":{"public_repos":8,"public_gists":0,"followers":0,"following":2,"created_at":"2024-05-19T08:03:21Z","updated_at":"2025-11-27T11:49:06Z"}}

I will now list all your repositories using the search_repositories tool.

search_repositories (github MCP Server) {"query": "user:SyedaQudsiaAli"}


{"total_count":8,"incomplete_results":false,"items":[{"id":802772481,"name":"Simple-Calculator","full_name":"SyedaQudsiaAli/Simple-Calculator","html_url":"https://g
ithub.com/SyedaQudsiaAli/Simple-Calculator","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2024-05-19T08:21:29Z","created_at":"2024-05-19
T08:21:28Z","private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":1010507421,"name":"AIDD-Task-3_by_qudsia","full_name":"SyedaQudsiaAli/AIDD-T
ask-3_by_qudsia","html_url":"https://github.com/SyedaQudsiaAli/AIDD-Task-3_by_qudsia","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2025-
11-21T19:36:39Z","created_at":"2025-11-21T19:18:52Z","private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":859364438,"name":"Hackathon-milest
ones","full_name":"SyedaQudsiaAli/hackathon-milestones","html_url":"https://github.com/SyedaQudsiaAli/hackathon-milestones","language":"HTML","stargazers_count":0,"
forks_count":0,"open_issues_count":0,"updated_at":"2024-09-18T14:54:44Z","private":false,"fork":false,"archived":false,"default_
branch":"main"}, {"id":802772445,"name":"SyedaQudsiaAli/SyedaQudsiaAli","description":"Config files for my GitHub
profile.","html_url":"https://github.com/SyedaQudsiaAli/SyedaQudsiaAli","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at":"2024-05-19T08:21:23
Z","created_at":"2024-05-19T08:21:23Z","topics":["config","github-config"],"private":false,"fork":false,"archived":false,"default_branch":"main"}, {"id":808534959,"name
": "to-do-list","full_name": "SyedaQudsiaAli/to-do-list","html_url": "https://github.com/SyedaQudsiaAli/to-do-list","stargazers_count":0,"forks_count":0,"open_is
sues_count":0,"updated_at": "2024-05-31T09:14:53Z","created_at": "2024-05-31T09:14:53Z","private": false,"fork": false,"archived": false,"default_branch": "main"}, {"id":9
04408539,"name": "E-Commerce-app","full_name": "SyedaQudsiaAli/E-commerce-app","description": "A Responsive E Commerce website by using Next JS , Tailwind CSS etc.
","html_url": "https://github.com/SyedaQudsiaAli/E-commerce-app","stargazers_count":0,"forks_count":0,"open_issues_count":0,"updated_at": "2024-12-08T17:45:09Z","crea
ted_at": "2024-12-08T17:45:09Z","private": false,"fork": false,"archived": false,"default_branch": "main"}, {"id":1099025065,"name": "AIDD-Task-1_by_qudsia","full_name": "S
yedaQudsiaAli/AIDD-Task-1_by_qudsia","html_url": "https://github.com/SyedaQudsiaAli/AIDD-Task-1_by_qudsia","stargazers_count":0,"forks_count":0,"open_issues_count":0
,"updated_at": "2025-11-18T13:25:23Z","created_at": "2025-11-18T13:07:29Z","private": false,"fork": false,"archived": false,"default_branch": "main"}, {"id":1099034657,"na
me": "AIDD-Task-2_by_qudsia","full_name": "SyedaQudsiaAli/AIDD-Task-2_by_qudsia","html_url": "https://github.com/SyedaQudsiaAli/AIDD-Task-2_by_qudsia","stargazers_coun
t":0,"forks_count":0,"open_issues_count":0,"updated_at": "2025-11-18T13:28:57Z","created_at": "2025-11-18T13:23:10Z","private": false,"fork": false,"archived": false,"de
fault_branch": "main"}]

Here are your GitHub repositories:

* Simple-Calculator: https://github.com/SyedaQudsiaAli/Simple-Calculator
* AIDD-Task-3_by_qudsia: https://github.com/SyedaQudsiaAli/AIDD-Task-3_by_qudsia
* hackathon-milestones: https://github.com/SyedaQudsiaAli/hackathon-milestones
* SyedaQudsiaAli: https://github.com/SyedaQudsiaAli/SyedaQudsiaAli (Config files for your GitHub profile)
* to-do-list: https://github.com/SyedaQudsiaAli/to-do-list
* E-commerce-app: https://github.com/SyedaQudsiaAli/E-commerce-app (A Responsive E Commerce website by using Next JS , Tailwind CSS etc.)
```

Thank you!

⌚ Submitted to Sir Hamza Syed